

8.2 - 5/13/86

D2:MENU1.M65

```

10 ; SAVE #D2:MENU1.M65
20 ;
30 ;
40 ;     STERM 8.0
50 ;
=0000 60 PROM = 0 ; KLUGE FOR HAYES
=0001 70 DISK = 1 ; KLUGE FOR DISK
=0000 80 EXITTODOS = 0 ; 0=TRAPPED-ALWAYS
90 ;
0100 ; .OPT NO LIST
=0480 0110 RAM = $0480
=3000 0120 ROM = $3000
0130 .INCLUDE #D2:SYSTEXT.M65
10 ;SAVE #D2:SYSTEXT.M65
20 ;
30 ;
=02FE 40 DSPFLG = $02FE
=000A 50 DOSVEC = $0A
=000C 60 DOSINI = $0C
=0010 70 POKMSK = $10
=0011 80 BRKKEY = $11
=0012 90 RTCLOK = $12
=0216 0100 VIMIRQ = $0216
=022B 0110 SRTIMR = $022B
=022F 0120 SDMCTL = $022F
=0230 0130 SDLSTL = $0230
=0231 0140 SDLSTH = $0231
=0232 0150 SSKCTL = $0232
=0234 0160 LPENH = $0234
=0235 0170 LPENV = $0235
=026F 0180 GPRIOR = $026F
=0270 0190 PADDL0 = $0270
=0278 0200 STICK0 = $0278
=0284 0210 STRIG0 = $0284
=02BE 0220 SHFLK = $02BE
=02C0 0230 PCOLR0 = $02C0
=02C4 0240 COLOR0 = $02C4
=02E7 0250 MEMLO = $02E7
=02F3 0260 CHART = $02F3
=02F4 0270 CHBAS = $02F4
=02FC 0280 CH = $02FC
=0300 0290 DDEVIC = $0300
=0301 0300 DUNIT = $0301
=0302 0310 DCOMND = $0302
=0303 0320 DSTATS = $0303
=0304 0330 DBUFLO = $0304
=0305 0340 DBUFHI = $0305
=0306 0350 DTIMLO = $0306
=0308 0360 DBYTLO = $0308
=0309 0370 DBYTHI = $0309
=030A 0380 DAUX1 = $030A
=030B 0390 DAUX2 = $030B
=0342 0400 ICCOM = $0342
=0344 0410 ICBAL = $0344
=0345 0420 ICBALH = $0345
=0348 0430 ICBLL = $0348
=0349 0440 ICBLH = $0349

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=034A	0450 ICAX1 = \$034A
=034B	0460 ICAX2 = \$034B
=E456	0470 CIOV = \$E456
=E459	0480 SIOV = \$E459
=E45C	0490 SETVBV = \$E45C
=E462	0500 XITVBV = \$E462
=E474	0510 OSRETN = \$E474
=FCD8	0520 CLICK = \$FCD8
=D000	0530 HPDSP0 = \$D000
=D000	0540 M0PF = \$D000
=D004	0550 HPDSM0 = \$D004
=D004	0560 P0PF = \$D004
=D008	0570 M0PL = \$D008
=D008	0580 SIZEP0 = \$D008
=D00C	0590 P0PL = \$D00C
=D00C	0600 SIZEM = \$D00C
=D00D	0610 GRAFP0 = \$D00D
=D010	0620 TRIG0 = \$D010
=D011	0630 GRAFM = \$D011
=D012	0640 COLPM0 = \$D012
=D016	0650 COLPF0 = \$D016
=D01A	0660 COLBK = \$D01A
=D01B	0670 PRIOR = \$D01B
=D01C	0680 VDELAY = \$D01C
=D01D	0690 GRACTL = \$D01D
=D014	0700 HITCLR = \$D014
=D01F	0710 CONSOL = \$D01F
=D200	0720 POT0 = \$D200
=D200	0730 AUDF1 = \$D200
=D201	0740 AUDC1 = \$D201
=D202	0750 AUDF2 = \$D202
=D204	0760 AUDF3 = \$D204
=D206	0770 AUDF4 = \$D206
=D208	0780 AUDCTL = \$D208
=D208	0790 ALLPOT = \$D208
=D209	0800 KBCODE = \$D209
=D209	0810 STIMER = \$D209
=D20A	0820 RANDOM = \$D20A
=D20A	0830 SKREST = \$D20A
=D20B	0840 POTGO = \$D20B
=D20D	0850 SERIN = \$D20D
=D20D	0860 SEROUT = \$D20D
=D20E	0870 IRQEN = \$D20E
=D20E	0880 IRQST = \$D20E
=D20F	0890 SKCTL = \$D20F
=D20F	0900 SKSTAT = \$D20F
=D300	0910 PORTA = \$D300
=D301	0920 PORTB = \$D301
=D302	0930 PACTL = \$D302
=D303	0940 PBCTL = \$D303
=D400	0950 DMACTL = \$D400
=D401	0960 CHACTL = \$D401
=D402	0970 DLISTL = \$D402
=D403	0980 DLISTH = \$D403
=D404	0990 HSCROL = \$D404
=D405	1000 VSCROL = \$D405
=D407	1010 PMBASE = \$D407
=D409	1020 CHBASE = \$D409

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=D40A      1030 WSYNC = $D40A
=D40B      1040 VCOUNT = $D40B
=D40C      1050 PENH = $D40C
=D40D      1060 PENV = $D40D
=D40E      1070 NMIE = $D40E
=D40F      1080 NMIRE = $D40F
=D40F      1090 NMIST = $D40F
0000      0140      *= RAM
      =0060      0150 MOD = $60
      =0030      0160 DSK = $30
0480 523A9B 0170 RDEV .BYTE "R:",$9B
0483 0000    0180 OLDMEMTOP .WORD 0
0485 00      0190 CLOK .BYTE 0
0486 00      0200 DUPLEX .BYTE 0
0487 00      0210 BDFLG .BYTE 0
0488 0000    0220 TOPBUF .WORD 0
048A 0000    0230 BOTBUF .WORD 0
048C 0000    0240 BUFMAX .WORD 0
048E 0000    0250 MAXTOP .WORD 0
0490 00      0260 TRANF .BYTE 0
0491 00      0270 BINF .BYTE 0
0492 00      0280 BIT8F .BYTE 0
0493 00      0290 DUPLF .BYTE 0
0494 00      0300 CASFLG .BYTE 0
0495 00      0310 SAVMOD .BYTE 0
0496 00      0320 SCRFLG .BYTE 0
0497 00      0330 COLFLG .BYTE 0
0498 00      0340 DISKF .BYTE 0
0499 00      0350 PRFLG .BYTE 0
049A 00      0360 LOADF .BYTE 0
049B 00      0370 SAVEF .BYTE 0
049C 00      0380 FULLF .BYTE 0
049D 00      0390 DPRFLG .BYTE 0
049E 00      0400 ANSFLG .BYTE 0
049F 00      0410 INVST .BYTE 0
04A0 00000000 0420 INIT .BYTE 0,0,0,0,0,0,0,0
04A4 0000000
04A7 0000    0430 INIBYTE .WORD 0
04A9 0000    0440 SVBK .WORD 0
04AB 00      0450 PLCNT .BYTE 0
04AC 0000    0460 DIALADD .WORD 0
04AE 00      0470 BUFFN .BYTE 0
04AF 00      0480 DIALF .BYTE 0
04B0 00      0490 QDIAL .BYTE 0
04B1 00      0500 DEFCLR .BYTE 0
04B2 00      0510 DEFCHR .BYTE 0
04B3 0000    0520 OMTOP .WORD 0
04B5 00      0530 KEYF .BYTE 0
04B6 04      0540 KEYF2 .BYTE 4
      =04B7    0550 RAM . = *
      0560 ;
      0570 ; EQUATES
      0580 ;
04B7      0590      *= $80
00B0      0600 BUFFER *= *+22
0096      0610 BUFF *= *+40
      =D800    0620 AFP = $D800
      =DB28    0630 FDIV = $DB28

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=D9D2      0640 FPI = $D9D2
=0342      0650 ICCMD = $0342
=00C6      0660 PLPTR = $C6
=00C8      0670 DIALBF = $C8
=00CA      0680 INPBUF = $CA
=00CC      0690 BUFPTR = $CC
=00CE      0700 PTR = $CE
=00D0      0710 PRPTR = $D0
=00D2      0720 SENPTR = $D2
=02E5      0730 MEMTOP = $02E5
=00D4      0740 FR0 = $D4
=D8E6      0750 FASC = $D8E6
=DA60      0760 FSUB = $DA60
=DD86      0770 FMOVE = $DD86
=D9AA      0780 IFP = $D9AA
=0222      0790 VVBLKI = $0222
=0009      0800 CPUTR = $09
=0007      0810 GETTXT = $07
=000B      0820 PUTTXT = $0B
=0007      0830 GETBIN = $07
=000B      0840 PUTBIN = $0B
=399D      0850 OPEN = OPENM2
=000B      0860 CPUTC = $0B
=0003      0870 COPEN = $03
=000C      0880 CCLOSE = $0C
=0007      0890 CGETC = $07
=0005      0900 CGETR = $05
=000D      0910 CSTATUS = $0D
=0400      0920 IOBUFF = $0400
0930 ;
00BE      0940      *= DOSVEC
000A 864C  0950      .WORD START
000C      0960      *= $02E0
02E0 864C  0970      .WORD START
0980 ;
02E2      0990      *= ROM
1000      .INCLUDE #D2:WINDOW.M65
10 ;WINDOW.M65
3000      20      *= ROM
      =0001      30      .LOCAL
3000      40 DLDT
3000 70604204 50      .BYTE $70,$60,$42,$04,$40
3004 40
3005 02020202 60      .BYTE $02,$02,$02,$02,$02,$02,$02,$02
3009 02020202
300D 02020202 70      .BYTE $02,$02,$02,$02,$02,$02,$02,$02
3011 02020202
3015 02020202 80      .BYTE $02,$02,$02,$02,$02,$02,$02,$02
3019 020202
301C      90 DL2T
301C 42400400 0100      .BYTE $42,$40,$04,$00,$02,$41,$00,$04
3020 02410004
3024      0110 WINDA1
3024 B4F29AE1 0120      .BYTE "4rasciil8moffl$upfull14mr"
3028 F3E3E9E9
302C FCB8ED9A
3030 EFE6E6FC
3034 A4F5F09A

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3038 E6F5ECEC
303C FCB4EDF2
3040 8090909A
3044 90909A90
3048 909A9090
304C
0130 WINDA2
0140 .BYTE ""dl/pbrcvl"fl0gl"
304C A2E49A80
3050 808080FC
3054 AFF09AE2
3058 F2E3F6FC
305C A2E69A91
3060 FCB0E79A
3064 91FC8080
3068 80808080
306C 80808080
3070 80808080
3074 0000
0150 OLDDL .WORD 0-
3076
0160 WINOP
3076 AD9704 0170 LDA COLFLG
3079 303B 0180 BMI A2?
307B AD3102 0190 LDA $0231
307E 8D7530 0200 STA OLDDL+1
3081 AD3002 0210 LDA $0230 ;DLLOC
3084 8D7430 0220 STA OLDDL
3087 1B 0230 CLC
3088 6920 0240 ADC #$20
308A 8D0330 0250 STA DLDAT+3 ;ATARI DATA AREA
308D 9003 0260 BCC A1?
308F EE3102 0270 INC $0231
3092 AD3102 0280 A1? LDA $0231
3095 8D0430 0290 STA DLDAT+4
3098 A924 0300 LDA # <WINDA1 ;LMS FROM W1
309A 8D1D30 0310 STA DL2T+1
309D A930 0320 LDA # >WINDA1
309F 8D1E30 0330 STA DL2T+2
30A2 A900 0340 LDA # <DLDAT ;JVB MY DL
30A4 8D2230 0350 STA DL2T+6
30A7 A930 0360 LDA # >DLDAT
30A9 8D2330 0370 STA DL2T+7
30AC A900 0380 LDA # <DLDAT ;TELL A WHERE
30AE 8D3002 0390 STA $0230 ; WE ARE
30B1 A930 0400 LDA # >DLDAT
30B3 8D3102 0410 STA $0231
30B6 60 0420 A2? RTS
30B7
0430 STERA
30B7 A000 0440 LDY #0
30B9 A980 0450 LDA #$80
30BB 996630 0460 A3? STA WINDA2+26,Y
30BE C8 0470 INY
30BF C00E 0480 CPY #14
30C1 D0F8 0490 BNE A3?
30C3 60 0500 RTS
30C4
0510 STNAME
30C4 AD9704 0520 LDA COLFLG
30C7 30ED 0530 BMI A2?
30C9 20B730 0540 A4? JSR STERA
30CC A000 0550 LDY #0
30CE A996 0560 LDA # <BUFF

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30D0	85D0	0570	STA PRPTR
30D2	A900	0580	LDA # >BUFF
30D4	85D1	0590	STA PRPTR+1
30D6	B1D0	0600	A5? LDA (PRPTR), Y
30D8	C99B	0610	CMP #\$9B ;EOLN
30DA	F017	0620	BEQ F6?
30DC	297F	0630	AND #\$7F
30DE	C960	0640	CMP #\$60 ;LCASE
30E0	1007	0650	BPL A6? ;YES
30E2	18	0660	CLC
30E3	E91F	0670	SBC #\$1F
30E5	1002	0680	BPL A6? ;CTRL
30E7	A900	0690	LDA #'
30E9	0980	0700	A6? ORA #\$80
30EB	996630	0710	STA WINDA2+26, Y
30EE	C8	0720	INY
30EF	C00E	0730	CPY #14
30F1	D0E3	0740	BNE A5?
30F3	60	0750	F6? RTS
30F4		0760	STLINE
30F4	AD9704	0770	LDA COLFLG
30F7	1001	0780	BPL A7?
30F9	60	0800	RTS
30FA		0810	A7?
30FA	8A	0820	TXA
30FB	48	0830	PHA
30FC	AD2B38	0840	LDA RBAUD
30FF	C908	0850	CMP #8
3101	D00D	0860	BNE ?IS1200 →
3103	A003	0870	?IS300 LDY #3
3105	B9D631	0880	?IS3 LDA BID1, Y
3108	994F30	0890	STA WINDA2+3, Y
310B	88	0900	DEY
310C	10F7	0910	BPL ?IS3
310E	300B	0920	BMI ?DBD
3110	A003	0930	?IS1200 LDY #3
3112	B9DA31	0940	?I12 LDA BID2, Y
3115	994F30	0950	STA WINDA2+3, Y
3118	88	0960	DEY
3119	10F7	0970	BPL ?I12
311B	ADAEO4	0980	?DBD LDA BUFFN ;BUFFNUM
311E	18	0990	CLC
311F	6991	1000	ADC #\$91
3121	8D5F30	1010	STA WINDA2+19
3124	AD3C4C	1020	LDA MDISK+7 ;PAGENUM
3127	18	1030	CLC
3128	6960	1040	ADC #\$60
312A	8D6430	1050	STA WINDA2+24
312D	A994	1060	LDA # <WINMES
312F	85D0	1070	STA PRPTR
3131	A931	1080	LDA # >WINMES
3133	85D1	1090	STA PRPTR+1
3135	A233	1100	LDX #51 ;SEND/RCV OPT
3137	AD9504	1110	LDA SAVMOD
313A	D00B	1120	BNE B1?
313C	A03D	1130	LDY #61
313E	AD9804	1140	LDA DISKF ;RCV
3141	D00F	1150	BNE B2?

8 - 300
10 - 1200
12 - 2400

MDW
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LDX R Baud
LDY #03
R Baud

CPLX #8
BEQ IS 300
CPLX #10
BEQ IS 1200
LDC ~~10~~ BID3, Y
BNE R R1 Baud
IS 300
LDC BID1, Y
BNE R R1 Baud

IS 1200
LDC BID2, Y

R R1 Baud
STA WIND#2+3, Y
BEY
BPL R R1 Baud

3143 A02E	1160	LDY #46	
3145 D00B	1170	BNE B2?	
3147 A038	1180 B1?	LDY #56	
3149 AD9804	1190	LDA DISKF	
314C D004	1200	BNE B2?	
314E A033	1210	LDY #51	
3150 D000	1220	BNE B2?	
3152 208831	1230 B2?	JSR PRNWIN	
3155 A203	1240	LDX #3	;DO ATARI/ASCII
3157 AD9004	1250	LDA TRANF	
315A D004	1260	BNE C1?	
315C A000	1270	LDY #0	
315E F002	1280	BEQ C2?	
3160 A006	1290 C1?	LDY #6	
3162 208831	1300 C2?	JSR PRNWIN	
3165 A20C	1310	LDX #12	;XMODEM ON/OFF
3167 AD9104	1320	LDA BINF	
316A F004	1330	BEQ C3?	
316C A00C	1340	LDY #12	
316E D002	1350	BNE C4?	
3170 A010	1360 C3?	LDY #16	
3172 208831	1370 C4?	JSR PRNWIN	
3175 A214	1380	LDX #20	;DUPLEX
3177 AD9304	1390	LDA DUPLF	
317A D004	1400	BNE C6?	
317C A014	1410	LDY #20	
317E D002	1420	BNE C5?	
3180 A019	1430 C6?	LDY #25	
3182 208831	1440 C5?	JSR PRNWIN	
3185 68	1450 D3?	PLA	
3186 AA	1460	TAX	
3187 60	1470	RTS	
3188	1480	PRNWIN	
3188 B1D0	1490 C9?	LDA (PRPTR),Y	
318A F007	1500	BEQ OUT?	
318C 9D2430	1510	STA WINDA1,X	
318F E8	1520	INX	
3190 C8	1530	INY	
3191 D0F5	1540	BNE C9?	
3193 60	1550	OUT? RTS	
3194	1560	WINMES	
3194 E1F3E3E9	1570	.BYTE "ascii" ;0	
3198 E900			
319A E1F4E1F2	1580	.BYTE "atari" ;6	
319E E900			
31A0 EFEE8000	1590	.BYTE "on" ;12 ATARI	
31A4 EFE6E600	1600	.BYTE "off" ;16	
31A8 E6F5ECEC	1610	.BYTE "full" ;20	
31AC 00			
31AD E8E1ECE6	1620	.BYTE "half" ;25	
31B1 00			
31B2 EFEEECE9	1630	.BYTE "online" ;30	
31B6 EEE58000			
31BA EFE6E6EC	1640	.BYTE "offline" ;38	
31BE E9EEE500			
31C2 E2F2E3F6	1650	.BYTE "brcv" ;46 REC	
31C6 00			
31C7 E2F3EEE4	1660	.BYTE "bsnd" ;51 SEND	

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31CB 00
31CC E4F3EEE4 1670 .BYTE "dsnd" ;56 DSEND
31D0 00
31D1 E4F2E5E3 1680 .BYTE "drec" ;61 DRECV
31D5 00
31D6 93909080 1690 BID1 .BYTE $93,$90,$90,$80 ; 300
31DA 91929090 1700 BID2 .BYTE $91,$92,$90,$90 ;1200
      =0002 1710 .LOCAL
      =31DE 1720 ROM .= *
1010 .INCLUDE #D2:RDRVR12.M65
10 ; SAVE #D2:RDRVR12.M65
20 ;
30 ;
40 ; .OPT NO LIST
50 ;
60 ;
70 ; Define equates
80 ;
=0080 90 INBUF_LEN = $80
=0080 0100 OUTBUF_LEN = $80
=0001 0110 DTRON = $01
=00FE 0120 DTROFF = $FE
0130 ;
0140 ;
0150 ; System equates
0160 ;
=0021 0170 ICDNOZ = $21
=0022 0180 ICCOMZ = $22
=0024 0190 ICBALZ = $24
=0025 0200 ICBAHZ = $25
=0028 0210 ICBLLZ = $28
=0029 0220 ICBLHZ = $29
=002A 0230 ICAX1Z = $2A
=002B 0240 ICAX2Z = $2B
=002C 0250 ICSPRZ = $2C
=002A 0260 VSERIN = $020A
=002EA 0270 DVSTAT = $02EA
=031A 0280 HATABS = $031A
0290 ;
0300 ;
0310 ;
0320 ;
0330 ; Close file to 'Rx: device
0340 ;
31DE 0350 RCLOSE
31DE ADA037 0360 LDA CONCUR
31E1 D00D 0370 BNE CLOSECON ;Close concur
31E3 AD9737 0380 LDA TXIN_PTR
31E6 CD9837 0390 CMP TXOUT_PTR
31E9 F010 0400 BEQ CLOSE.1 ;Buffer empty
31EB 20A932 0410 JSR SENDBLOCK
31EE D00B 0420 BNE CLOSE.1 ;Always
0430 ;
31F0 0440 CLOSECON
31F0 AD9737 0450 LDA TXIN_PTR
31F3 CD9837 0460 CMP TXOUT_PTR ;Empty?
31F6 D0F8 0470 BNE CLOSECON ;NO
31F8 20FF35 0480 JSR IOOFF

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Bid 3 \$92, \$94, \$90, \$90
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0490 ;
31FB 0500 CLOSE.1
31FB A900 0510 LDA #$00
31FD 8D9D37 0520 STA MODE
3200 8DA037 0530 STA CONCUR ;Concur off
3203 A001 0540 LDY #$01 ;OK
3205 60 0550 RTS
0560 ;
0570 ;
0580 ;
0590 ; Open file to 'Rx: device
0600 ;
3206 0610 ROPEN
3206 AD9D37 0620 LDA MODE
3209 F003 0630 BEQ OPEN.1
320B A096 0640 LDY #$96 ;Already open
320D 60 0650 RTS
0660 ;
320E 0670 OPEN.1
320E A52A 0680 LDA ICAX1Z ;Get mode
3210 A8 0690 TAY
3211 290C 0700 AND #$0C
3213 D003 0710 BNE OPEN.2
3215 A084 0720 LDY #$84 ;Invalid command
3217 60 0730 RTS
0740 ;
3218 0750 OPEN.2
3218 98 0760 TYA
3219 8D9D37 0770 STA MODE ;Now on
321C A900 0780 LDA #$00
321E 8D9737 0790 STA TXIN_PTR
3221 8D9837 0800 STA TXOUT_PTR
3224 8D9C37 0810 STA STAT
3227 A001 0820 LDY #$01 ;OK
3229 60 0830 RTS
0840 ;
0850 ;
0860 ;
0870 ; Write a char to 'Rx: device
0880 ;
322A 0890 RPUTBYTE
322A AA 0900 TAX ;Save char
322B AD9D37 0910 LDA MODE
322E 2908 0920 AND #$08
3230 D003 0930 BNE PUTBYTE.2
3232 A087 0940 LDY #$87 ;Read only
3234 60 0950 RTS
0960 ;
3235 0970 PUTBYTE.2
3235 AD9E37 0980 LDA TRNPAR
3238 2930 0990 AND #$30
323A A8 1000 TAY
323B F005 1010 BEQ PUTTRANS ;Trans
323D 8A 1020 TXA ;Get char
323E C020 1030 CPY #$20
3240 B026 1040 BCS PUTIT ;No trans
1050 ;
3242 1060 PUTTRANS

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3242 8A      1070    TXA          ;Get char
3243 C99B    1080    CMP #$9B    ;<EOL>
3245 D00E    1090    BNE PUTTRANS.2
3247 A90D    1100    LDA #$0D    ;<CR>
3249 2C9E37  1110    BIT TRNPAR  ;Append <LF>?
324C 501A    1120    BVC PUTIT   ;NO
324E 206832  1130    JSR PUTIT
3251 A90A    1140    LDA #$0A    ;<LF>
3253 D013    1150    BNE PUTIT   ;Always
          1160 ;
3255          1170 PUTTRANS.2
3255 C010    1180    CPY #$10
3257 F004    1190    BEQ HVYTRANS
3259 297F    1200    AND #$7F    ;Light trans
325B 100B    1210    BPL PUTIT   ;Always
          1220 ;
325D          1230 HVYTRANS
325D C920    1240    CMP #$20    ;Heavy trans
325F 9004    1250    BCC HVYTRANS.1
3261 C97D    1260    CMP #$7D
3263 9003    1270    BCC PUTIT
3265          1280 HVYTRANS.1
3265 A001    1290    LDY #$01    ;OK but no send
3267 60      1300    RTS
          1310 ;
          1320 ;
3268          1330 PUTIT
3268 8DA137  1340    STA CHAR
326B AD9E37  1350    LDA TRNPAR
326E 2903    1360    AND #$03    ;Parity mask
3270 F01E    1370    BEQ PUTIT.2 ;No parity
3272 C903    1380    CMP #$03
3274 F00E    1390    BEQ PARITY1 ;Parity = 1
3276 A8      1400    TAY
3277 203536  1410    JSR MASKHIBIT
327A 202A36  1420    JSR FIGRPAR
327D 98      1430    TYA          ;'C is parity
327E 2902    1440    AND #$02
3280 F00C    1450    BEQ PARITY0 ;Do odd parity
3282 900C    1460    BCC PUTIT.2 ;Clr parity
          1470 ;
3284          1480 PARITY1
3284 ADA137  1490    LDA CHAR
3287 0980    1500    ORA #$80
3289 8DA137  1510    STA CHAR
328C 3002    1520    BMI PUTIT.2 ;Always
          1530 ;
328E          1540 PARITY0
328E 90F4    1550    BCC PARITY1 ;Set parity
          1560 ;
3290          1570 PUTIT.2
3290 AEA037  1580    LDX CONCUR
3293 D054    1590    BNE PUTCONCUR
          1600 ;
3295 AC9737  1610    LDY TXIN_PTR
3298 ADA137  1620    LDA CHAR
329B 991137  1630    STA OUT_BUFFER,Y
329E EE9737  1640    INC TXIN_PTR

```

```

32A1 C90D      1650      CMP ##0D      ; <CR>?
32A3 F004      1660      BEQ SENDBLOCK ;Send block
32A5 C07E      1670      CPY #OUTBUF_LEN-2 ;Full?
32A7 D03D      1680      BNE SENDBLOCK.END
                1690      ;
32A9           1700      SENDBLOCK
32A9 209A35     1710      JSR IOON      ;Turn IO on
32AC 78        1720      SEI
32AD A900      1730      LDA ##00
32AF 8D9B37     1740      STA TX_DONE
32B2 A510      1750      LDA POKMSK
32B4 2C9E37     1760      BIT TRNPAR   ;Test stop bits
32B7 3004      1770      BMI SENDBLOCK.00
32B9 0918      1780      ORA ##18     ;One-stop on
32BB D002      1790      BNE SENDBLOCK.01
32BD           1800      SENDBLOCK.00
32BD 0908      1810      ORA ##08     ;Two-stop on
32BF           1820      SENDBLOCK.01
32BF 8510      1830      STA POKMSK
32C1 8D0ED2     1840      STA IRQEN
32C4 58        1850      CLI
                1860      ;
32C5           1870      SENDBLOCK.1
32C5 A000      1880      LDY ##00     ;Reset timer
32C7 A210      1890      LDX ##10
32C9           1900      SENDBLOCK.2
32C9 AD9B37     1910      LDA TX_DONE ;Done?
32CC F0F7      1920      BEQ SENDBLOCK.1 ;Nope
32CE AD0ED2     1930      LDA IRQST
32D1 2908      1940      AND ##08
32D3 D0F0      1950      BNE SENDBLOCK.1
32D5 88        1960      DEY
32D6 D0F1      1970      BNE SENDBLOCK.2
32D8 CA        1980      DEX
32D9 D0EE      1990      BNE SENDBLOCK.2
                2000      ;
32DB 20FF35     2010      JSR IOOFF   ;Turn IO off
32DE A900      2020      LDA ##00
32E0 8D9737     2030      STA TXIN_PTR
32E3 8D9837     2040      STA TXOUT_PTR
32E6           2050      SENDBLOCK.END
32E6 A001      2060      LDY ##01     ;OK
32E8 60        2070      RTS
                2080      ;
                2090      ;
32E9           2100      PUTCONCUR
32E9 58        2110      CLI
32EA 78        2120      SEI
32EB AC9737     2130      LDY TXIN_PTR
32EE CB        2140      INY
32EF 98        2150      TYA
32F0 297F      2160      AND #OUTBUF_LEN-1
32F2 CD9837     2170      CMP TXOUT_PTR ;Buffer full?
32F5 F0F2      2180      BEQ PUTCONCUR ;YES - Wait!
32F7 8D9737     2190      STA TXIN_PTR
                2200      ;
32FA 88        2210      DEY
32FB ADA137     2220      LDA CHAR     ;Get char back

```

```

32FE 991137      2230      STA OUT_BUFFER,Y ;Write char
                  2240      ;
3301 A510        2250      LDA POKMSK
3303 2C9E37      2260      BIT TRNPAR ;Test stop bits
3306 3004        2270      BMI PUTCONCUR.1
3308 0918        2280      ORA #$18 ;One-stop on
330A D002        2290      BNE PUTCONCUR.2
330C             2300      PUTCONCUR.1
330C 0908        2310      ORA #$08 ;Two-stop on
330E             2320      PUTCONCUR.2
330E 8510        2330      STA POKMSK
3310 8D0ED2      2340      STA IRQEN
3313 58          2350      CLI
3314 A001        2360      LDY #$01 ;OK
3316 60          2370      RTS
                  2380      ;
                  2390      ;
                  2400      ;
                  2410      ; Get byte from buffer
                  2420      ;
3317             2430      RGETBYTE
3317 AD9D37      2440      LDA MODE
331A 2904        2450      AND #$04
331C D003        2460      BNE GETBYTE.1
331E A083        2470      LDY #$83 ;Write only
3320 60          2480      RTS
                  2490      ;
3321             2500      GETBYTE.1
3321 AEA037      2510      LDX CONCUR
3324 D003        2520      BNE GETBYTE.2
3326 A09A        2530      LDY #$9A ;Con not active
3328 60          2540      RTS
                  2550      ;
3329             2560      GETBYTE.2
3329 58          2570      CLI
332A 78          2580      SEI
332B AC9A37      2590      LDY RXOUT_PTR
332E CC9937      2600      CPY RXIN_PTR
3331 F0F6        2610      BEQ GETBYTE.2 ;No chars in
                  2620      ;
3333 B99136      2630      LDA IN_BUFFER,Y ;Get char
3336 8DA137      2640      STA CHAR
3339 C8          2650      INY
333A 98          2660      TYA
333B 297F        2670      AND #INBUF_LEN-1
333D 8D9A37      2680      STA RXOUT_PTR
                  2690      ;
3340 58          2700      CLI
3341 AD9E37      2710      LDA TRNPAR
3344 4A          2720      LSR A ;Do parity
3345 4A          2730      LSR A
3346 2903        2740      AND #$03
3348 F021        2750      BEQ GETBYTE.8 ;No parity
334A C903        2760      CMP #$03
334C F01A        2770      BEQ GETBYTE.7 ;Clear parity
334E A8          2780      TAY
334F ADA137      2790      LDA CHAR
3352 202A36      2800      JSR FIGRPAR

```

```

3355 98      2810      TYA
3356 2902    2820      AND #$02
3358 F00C    2830      BEQ GETBYTE.6 ;Do odd parity
335A 900C    2840      BCC GETBYTE.7 ;Clr parity
335C         2850 GETBYTE.5
335C AD9C37  2860      LDA STAT      ;Parity error
335F 0920    2870      ORA #$20
3361 8D9C37  2880      STA STAT
3364 D002    2890      BNE GETBYTE.7 ;Always
          2900 ;
3366         2910 GETBYTE.6
3366 90F4    2920      BCC GETBYTE.5 ;Set parity
          2930 ;
3368         2940 GETBYTE.7
3368 203536  2950      JSR MASKHIBIT
336B         2960 GETBYTE.8
336B AD9E37  2970      LDA TRNPAR
336E 2930    2980      AND #$30
3370 C920    2990      CMP #$20
3372 9006    3000      BCC GETTRANS ;Translate it
3374 ADA137  3010      LDA CHAR      ;No trans return
3377 A001    3020      LDY #$01
3379 60      3030      RTS
          3040 ;
          3050 ;
337A         3060 GETTRANS
337A A8      3070      TAY
337B 203536  3080      JSR MASKHIBIT
337E C90D    3090      CMP #$0D      ; <CR>
3380 D004    3100      BNE GETTRANS.1
3382 A99B    3110      LDA #$9B      ; <EOL>
3384 D00F    3120      BNE GETTRANS.3 ;Always
          3130 ;
3386         3140 GETTRANS.1
3386 C000    3150      CPY #$00
3388 F00B    3160      BEQ GETTRANS.3 ;Light trans
338A C920    3170      CMP #$20
338C 9004    3180      BCC GETTRANS.2 ;Wont trans
338E C97D    3190      CMP #$7D      ; <BS>
3390 9003    3200      BCC GETTRANS.3 ;OK char
          3210 ;
3392         3220 GETTRANS.2
3392 AD9F37  3230      LDA HVYTR      ;No trans char
          3240 ;
3395         3250 GETTRANS.3
3395 A001    3260      LDY #$01
3397 60      3270      RTS
          3280 ;
          3290 ;
          3300 ;
          3310 ; Get status of 850
          3320 ;
3398         3330 RSTATUS
3398 AD9C37  3340      LDA STAT
339B 8DEA02  3350      STA DVSTAT      ;Set error
339E A900    3360      LDA #$00
33A0 8D9C37  3370      STA STAT
33A3 AEA037  3380      LDX CONCUR

```

```

33A6 D045      3390      BNE STATUSCON ;Concur ON
                3400 ;
                3410 ; No interrupts can happen while
                3420 ; the following section of code
                3430 ; is running, if one does then
                3440 ; rerun the routine!!!
                3450 ;
33A8           3460 STATUS.1
33A8 A514      3470      LDA RTCLOK+2 ;Get clock
33AA 48        3480      PHA          ;Save it
33AB AD00D3    3490      LDA PORTA   ;Clear chip
33AE AD01D3    3500      LDA PORTB
33B1 AD03D3    3510      LDA PBCTL
33B4 29FC      3520      AND #$FC    ;Mask hi/lo
33B6 8D03D3    3530      STA PBCTL
33B9 AD02D3    3540      LDA PACTL
33BC 29FC      3550      AND #$FC    ;Mask hi/lo
33BE 8D02D3    3560      STA PACTL
33C1 29F7      3570      AND #$F7    ;Motor on
33C3 8D02D3    3580      STA PACTL
33C6 A000      3590      LDY #$00
33C8           3600 STATUS.2
33C8 C8        3610      INY          ;Wait a bit
33C9 D0FD      3620      BNE STATUS.2
                3630 ;
33CB A930      3640      LDA #$30
33CD 2C03D3    3650      BIT PBCTL   ;Test RI
33D0 1002      3660      BPL STATUS.3 ;Nope
33D2 09C0      3670      ORA #$C0
33D4           3680 STATUS.3
33D4 2C02D3    3690      BIT PACTL   ;Test DCD
33D7 1002      3700      BPL STATUS.4 ;Nope
33D9 090C      3710      ORA #$0C
33DB           3720 STATUS.4
33DB 8DEB02    3730      STA DVSTAT+1
33DE AD02D3    3740      LDA PACTL
33E1 0908      3750      ORA #$08    ;Motor off
33E3 8D02D3    3760      STA PACTL
                3770 ;
33E6 68        3780      PLA          ;Get clock back
33E7 C514      3790      CMP RTCLOK+2 ;Is it same?
33E9 D0BD      3800      BNE STATUS.1 ;Go again
                3810 ;
33EB F00F      3820      BEQ STATUS.END ;Always
                3830 ;
                3840 ;
33ED           3850 STATUSCON
33ED A900      3860      LDA #$00
33EF 8DEC02    3870      STA DVSTAT+2
33F2 38        3880      SEC
33F3 AD9937    3890      LDA RXIN_PTR ;Number input
33F6 ED9A37    3900      SBC RXOUT_PTR
33F9 8DEB02    3910      STA DVSTAT+1
                3920 ;
33FC           3930 STATUS.END
33FC 38        3940      SEC
33FD AD9837    3950      LDA TXOUT_PTR ;Number output
3400 ED9737    3960      SBC TXIN_PTR

```



```

3403 8DED02      3970      STA DVSTAT+3
3406 A001        3980      LDY ##01      ;OK
3408 60          3990      RTS
                 4000      ;
                 4010      ;
                 4020      ;
                 4030      ; Section to handle XIO's
                 4040      ;
3409            4050      RSPECIAL
3409 A092        4060      LDY ##92      ;Func not implmt
340B A522        4070      LDA ICCOMZ
340D C930        4080      CMP ##30      ;Check range
340F B014        4090      BCS SPECIAL.1
3411 A084        4100      LDY ##84      ;Invalid command
3413 290F        4110      AND ##0F
3415 C909        4120      CMP ##09      ;Less than 9
3417 B00C        4130      BCS SPECIAL.1 ;Bad command
3419 A8          4140      TAY
341A 4A          4150      LSR A          ;Fix for table
341B B008        4160      BCS SPECIAL.1 ;Bad command
341D B97E36      4170      LDA VEC_SPECIAL+1,Y
3420 48          4180      PHA
3421 B97D36      4190      LDA VEC_SPECIAL,Y
3424 48          4200      PHA
3425            4210      SPECIAL.1
3425 60          4220      RTS
                 4230      ;
                 4240      ;
                 4250      ;
                 4260      ; XIO 40 - Concurrent mode on
                 4270      ;
3426            4280      RXIO40
3426 AD9D37      4290      LDA MODE
3429 D003        4300      BNE XIO40.1
342B A085        4310      LDY ##85      ;Device not open
342D 60          4320      RTS
                 4330      ;
342E            4340      XIO40.1
342E ACA037      4350      LDY CONCUR
3431 F003        4360      BEQ XIO40.2
3433 A099        4370      LDY ##99      ;Con on already
3435 60          4380      RTS
                 4390      ;
3436            4400      XIO40.2
3436 4A          4410      LSR A
3437 B003        4420      BCS XIO40.4
3439 A097        4430      LDY ##97      ;Cant do concrt
343B 60          4440      RTS
                 4450      ;
343C            4460      XIO40.4
343C A000        4470      LDY ##00
343E 8C9937      4480      STY RXIN_PTR
3441 8C9A37      4490      STY RXOUT_PTR
3444 8C9C37      4500      STY STAT      ;Clear stat
3447 C8          4510      INY
3448 8CA037      4520      STY CONCUR ;Non-zero is ON
344B 209A35      4530      JSR IOON
344E D05B        4540      BNE XIORETOK ;Always

```

```

4550 ;
4560 ;
4570 ;
4580 ; Force short block
4590 ;
3450 4600 RXI032
3450 AD9D37 4610 LDA MODE
3453 D003 4620 BNE XI032.1
3455 A085 4630 LDY ##85 ;Chan not open
3457 60 4640 RTS
4650 ;
3458 4660 XI032.1
3458 2908 4670 AND ##08
345A D003 4680 BNE XI032.2
345C A087 4690 LDY ##87 ;Read only
345E 60 4700 RTS
4710 ;
345F 4720 XI032.2
345F AD9737 4730 LDA TXIN_PTR
3462 CD9837 4740 CMP TXOUT_PTR
3465 F044 4750 BEQ XIORETOK ;No chars
3467 20A932 4760 JSR SENDBLOCK ;Send block
346A D03F 4770 BNE XIORETOK ;Always
4780 ;
4790 ;
4800 ;
4810 ; Set baud, word size, etc
4820 ;
346C 4830 RXI036
346C A52A 4840 LDA ICAX1Z ;Get buad number
346E 290F 4850 AND ##0F
3470 8DA237 4860 STA ORBAUD
3473 AD9E37 4870 LDA TRNPAR ;Mask in stops
3476 297F 4880 AND ##7F
3478 8D9E37 4890 STA TRNPAR
347B A52A 4900 LDA ICAX1Z
347D 2980 4910 AND ##80
347F 0D9E37 4920 ORA TRNPAR
3482 8D9E37 4930 STA TRNPAR
3485 D024 4940 BNE XIORETOK ;Always
4950 ;
4960 ;
4970 ;
4980 ; Control of DTR, RTS, XMT
4990 ;
3487 5000 RXI034
3487 AD00D3 5010 LDA PORTA ;Get port
348A 242A 5020 BIT ICAX1Z ;Set flags
348C 101D 5030 BPL XIORETOK ;NO DTR
348E 5004 5040 BVC XI034.1 ;DTR off
3490 0901 5050 ORA #DTRON
3492 D002 5060 BNE XI034.9 ;Always
5070 ;
3494 5080 XI034.1
3494 29FE 5090 AND #DTROFF
3496 5100 XI034.9
3496 8D00D3 5110 STA PORTA
3499 18 5120 CLC

```

```

349A 900F      5130      BCC XIORETOK ;Always
                5140 ;
                5150 ;
                5160 ;
                5170 ; Translation, LF & Parity
                5180 ;
349C           5190 RXIO38
349C A52A      5200      LDA ICAX1Z    ;Get data
349E 0A        5210      ASL A
349F 0E9E37    5220      ASL TRNPAR    ;Get bit 7
34A2 6A        5230      ROR A          ;...and make one
34A3 8D9E37    5240      STA TRNPAR    ;Save it
34A6 A52B      5250      LDA ICAX2Z
34A8 8D9F37    5260      STA HVYTR
                5270 ;
34AB           5280 XIORETOK
34AB AD9D37    5290      LDA MODE
34AE 852A      5300      STA ICAX1Z
34B0 A001      5310      LDY #$01      ;OK
34B2 60        5320      RTS
                5330 ;
                5340 ;
                5350 ;
34B3           5360 ; Initialize 850 'R: driver
                5370 ;
34B3           5380 RINIT
34B3 200135    5390      JSR DOSINIT
34B6           5400 INIT.0
34B6 A200      5410      LDX #$00      ;Look for space
34B8           5420 INIT.1
34B8 BD1A03    5430      LDA HATABS,X
34BB F00C      5440      BEQ INIT.2
34BD C952      5450      CMP #'R      ;...or R: device
34BF F008      5460      BEQ INIT.2
34C1 E8        5470      INX
34C2 E8        5480      INX
34C3 E8        5490      INX
34C4 E020      5500      CPX #$20
34C6 90F0      5510      BCC INIT.1
34C8 60        5520      RTS          ;None found
                5530 ;
34C9           5540 INIT.2
34C9 A952      5550      LDA #'R      ;Install 'R:
34CB 9D1A03    5560      STA HATABS,X
34CE A96E      5570      LDA # <VEC_TABLE
34D0 9D1B03    5580      STA HATABS+1,X
34D3 A936      5590      LDA # >VEC_TABLE
34D5 9D1C03    5600      STA HATABS+2,X
                5610 ;
34D8 AD02D3    5620      LDA PACTL
34DB AA        5630      TAX          ;Save PACTL
34DC 29FB      5640      AND #$FB      ;Set to DDR
34DE 8D02D3    5650      STA PACTL
34E1 AD00D3    5660      LDA PORTA    ;Get old DDR
34E4 0901      5670      ORA #DTRON   ;Bit 0 to OUT
34E6 8D00D3    5680      STA PORTA
34E9 8E02D3    5690      STX PACTL    ;PACTL to DATA
34EC AD00D3    5700      LDA PORTA

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```

34EF 29FE      5710      AND #DTROFF
34F1 8D00D3    5720      STA PORTA
                5730 ;
34F4 A900      5740      LDA #$00
34F6 8D9D37    5750      STA MODE
34F9 8DA037    5760      STA CONCUR
34FC 20A833    5770      JSR STATUS.1
34FF 18        5780      CLC
3500 60        5790      RTS
                5800 ;
                5810 ;
                5820 ;
                5830 ; Indirect jump for DOS init
                5840 ;
3501           5850      DOSINIT
3501 6C8F36    5860      JMP (DOSINI_OLD)
                5870 ;
                5880 ;
                5890 ;
3504           5900      RINIT.ST
3504 A50C      5910      LDA DOSINI
3506 8D8F36    5920      STA DOSINI_OLD
3509 A50D      5930      LDA DOSINI+1
350B 8D9036    5940      STA DOSINI_OLD+1
350E A9B3      5950      LDA # <RINIT
3510 850C      5960      STA DOSINI
3512 A934      5970      LDA # >RINIT
3514 850D      5980      STA DOSINI+1
3516 4CB634    5990      JMP INIT.0
                6000 ;
                6010 ;
                6020 ;
                6030 ; Capture BREAK key
                6040 ;
3519           6050      IRQVECTOR
3519 2C0ED2    6060      BIT IRQST
351C 1003      6070      BPL IRQVECTOR.1 ;Test break
351E 6C8D36    6080      JMP (IRQ_OLD)
                6090 ;
3521           6100      IRQVECTOR.1
3521 48        6110      PHA ;Cancel BRK key
3522 A97F      6120      LDA #$7F
3524 8D0ED2    6130      STA IRQEN
3527 A510      6140      LDA POKMSK
3529 8D0ED2    6150      STA IRQEN
352C 68        6160      PLA
352D 40        6170      RTI
                6180 ;
                6190 ;
                6200 ;
                6210 ; Input interrupt routine
                6220 ;
352E           6230      INPUT
352E 98        6240      TYA
352F 48        6250      PHA
3530 AC9937    6260      LDY RXIN_PTR
3533 AD0DD2    6270      LDA SERIN ;Get IN char
3536 999136    6280      STA IN_BUFFER,Y

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```

3539 AD0FD2      6290      LDA SKSTAT
353C 8D0AD2      6300      STA SKREST
353F 49FF        6310      EOR #$FF
3541 29C0        6320      AND #$C0      ;Check errors
3543 0D9C37      6330      ORA STAT
3546 8D9C37      6340      STA STAT
3549 C8          6350      INY      ;Next position
354A 98          6360      TYA
354B 297F        6370      AND #INBUF_LEN-1
354D 8D9937      6380      STA RXIN_PTR
3550 CD9A37      6390      CMP RXOUT_PTR ;Full?
3553 D041        6400      BNE IRQRETURN ;Not full
                6410      ;
3555 AC9A37      6420      LDY RXOUT_PTR ;Get out
3558 C8          6430      INY
3559 98          6440      TYA
355A 297F        6450      AND #INBUF_LEN-1
355C 8D9A37      6460      STA RXOUT_PTR ;Dump last
355F AD9C37      6470      LDA STAT      ;Wrap error
3562 0910        6480      ORA #$10
3564 8D9C37      6490      STA STAT
3567 D02D        6500      BNE IRQRETURN ;Always
                6510      ;
                6520      ;
                6530      ;
3569            6540      ; Output interrupt routine
                6550      ;
3569 98          6560      OUTPUT
356A 48          6570      TYA
356B AC9837      6580      PHA
356E CC9737      6590      LDY TXOUT_PTR
3571 D00F        6600      CPY TXIN_PTR
3573 A510        6610      BNE OUTPUT.1
3575 29E7        6620      LDA POKMSK      ;Clear interrupt
3577 8510        6630      AND #$E7
3579 8D0ED2      6640      STA POKMSK
357C EE9B37      6650      STA IRQEN
357F 18          6660      INC TX_DONE ;All done
3580 9014        6670      CLC
                6680      BCC IRQRETURN ;Always
                6690      ;
3582            6700      OUTPUT.1
3582 B91137      6710      LDA OUT_BUFFER,Y
3585 8D0DD2      6720      STA SEROUT
3588 C8          6730      INY
3589 98          6740      TYA
358A 297F        6750      AND #OUTBUF_LEN-1
358C 8D9837      6760      STA TXOUT_PTR
                6770      ;
358F            6780      OUTPUT.2
358F AD0ED2      6790      LDA IRQST
3592 2908        6800      AND #$08
3594 F0F9        6810      BEQ OUTPUT.2 ;Wait for start
                6820      ;
3596            6830      IRQRETURN
3596 68          6840      PLA
3597 A8          6850      TAY
3598 68          6860      PLA

```



```

3599 40      6870      RTI
              6880 ;
              6890 ;
              6900 ;
              6910 ; Routine to turn IO on
              6920 ;
359A      6930 IOON
359A 78      6940      SEI
359B A973    6950      LDA #$73      ;Async
359D 8D3202  6960      STA SSKCTL
35A0 8D0FD2  6970      STA SKCTL
35A3 A928    6980      LDA #$28
35A5 8D08D2  6990      STA AUDCTL
35A8 ADA237  7000      LDA ORBAUD
35AB AA      7010      TAX
35AC 0A      7020      ASL A          ;Times 2
35AD AB      7030      TAY
35AE BD3E36  7040      LDA BAUDOUT_TBL,X
35B1 8D02D2  7050      STA AUDF2      ;Set baud out
35B4 B94E36  7060      LDA BAUDIN_TBL,Y
35B7 8D04D2  7070      STA AUDF3      ;Set baud in lo
35BA B94F36  7080      LDA BAUDIN_TBL+1,Y
35BD 8D06D2  7090      STA AUDF4      ;set baud in hi
              7100 ;
35C0 A205    7110      LDX #$05
35C2      7120 IOON.1
35C2 BD0A02  7130      LDA VSERIN,X ;Save old
35C5 9D9137  7140      STA OLD_VECTOR,X
35C8 BD8736  7150      LDA VEC_IO,X ;...and replace
35CB 9D0A02  7160      STA VSERIN,X
35CE CA      7170      DEX
35CF 10F1    7180      BPL IOON.1
              7190 ;
35D1 AD1602  7200      LDA VIMIRQ ;Set BREAK vec
35D4 8D8D36  7210      STA IRQ_OLD
35D7 AD1702  7220      LDA VIMIRQ+1
35DA 8D8E36  7230      STA IRQ_OLD+1
35DD A919    7240      LDA # <IRQVECTOR
35DF 8D1602  7250      STA VIMIRQ
35E2 A935    7260      LDA # >IRQVECTOR
35E4 8D1702  7270      STA VIMIRQ+1
              7280 ;
35E7 ADA037  7290      LDA CONCUR
35EA F009    7300      BEQ IOON.2
35EC A510    7310      LDA POKMSK
35EE 0920    7320      ORA #$20      ;IN on
35F0 8D0ED2  7330      STA IRGEN
35F3 8510    7340      STA POKMSK
35F5      7350 IOON.2
35F5 AD02D3  7360      LDA PACTL
35F8 29F7    7370      AND #$F7      ;Motor on
35FA 8D02D3  7380      STA PACTL
35FD 58      7390      CLI
35FE 60      7400      RTS
              7410 ;
              7420 ;
              7430 ;
              7440 ; Routine to turn IO off

```

```

35FF      7450 ;
35FF 78    7460 IOFF
3600 A510   7470      SEI          ;Restore old IRQ
3602 29CF   7480      LDA POKMSK
3604 8510   7490      AND #$CF      ;Interrupts off
3606 8D0ED2 7500      STA POKMSK
3609 AD8D36 7510      STA IRQEN
360C 8D1602 7520 ;
360F AD8E36 7530      LDA IRQ_OLD ;Restore IRQ
3612 8D1702 7540      STA VIMIRQ
3615 A205   7550      LDA IRQ_OLD+1
3617      7560      STA VIMIRQ+1
3617 BD9137 7570 ;
361A 9D0A02 7580      LDX #$05      ;Restore vectors
361D CA     7590 IOFF.1
361E 10F7   7600      LDA OLD_VECTOR, X
3620 AD02D3 7610      STA VSERIN, X
3623 0908   7620      DEX
3625 8D02D3 7630      BPL IOFF.1
3628 58     7640 ;
3629 60     7650      LDA PACTL
3630      7660      ORA #$08      ;Motor off
3631      7670      STA PACTL
3632      7680      CLI
3633      7690      RTS
3634      7700 ;
3635      7710 ;
3636      7720 ;
3637      7730 ; Figure parity - 'C set on ODD
3638      7740 ;
3639      7750 FIGRPAR
363A A200   7760      LDX #$00
363C      7770 FIGRPAR.1
363D 4A     7780      LSR A          ;IS IT SET?
363E 9001   7790      BCC FIGRPAR.2
363F E8     7800      INX          ;UP COUNTER
3640      7810 FIGRPAR.2
3641 D0FA   7820      BNE FIGRPAR.1 ;Done ('A=0)?
3642 8A     7830      TXA
3643 4A     7840      LSR A          ;IS IT ODD?
3644 60     7850      RTS
3645      7860 ;
3646      7870 ;
3647      7880 ;
3648      7890 ; Mask off high bit
3649      7900 ;
3650      7910 MASKHIBIT
3651 ADA137 7920      LDA CHAR
3652 297F   7930      AND #$7F
3653 8DA137 7940      STA CHAR
3654 60     7950      RTS
3655      7960 ;
3656      7970 ;
3657      7980 ;
3658      7990 ;
3659      8000 ; Baud rate output table
3660      8010 ;
3661      8020 BAUDOUT_TBL

```

```

363E 69      8030      .BYTE 105      ;0 = 300 baud
363F 69      8040      .BYTE 105      ;1 = 300 baud
3640 69      8050      .BYTE 105      ;2 = 300 baud
3641 69      8060      .BYTE 105      ;3 = 300 baud
3642 69      8070      .BYTE 105      ;4 = 300 baud
3643 69      8080      .BYTE 105      ;5 = 300 baud
3644 69      8090      .BYTE 105      ;6 = 300 baud
3645 D4      8100      .BYTE 212      ;7 = 150 baud
3646 69      8110      .BYTE 105      ;8 = 300 baud
3647 34      8120      .BYTE 52       ;9 = 600 baud
3648 1A      8130      .BYTE 26       ;10 = 1200 baud
3649 11      8140      .BYTE 17       ;11 = 1800 baud
364A 0C      8150      .BYTE 12       ;12 = 2400 baud
364B 0C      8160      .BYTE 12       ;13 = 2400 baud
364C 0C      8170      .BYTE 12       ;14 = 2400 baud
364D 0C      8180      .BYTE 12       ;15 = 2400 baud
            8190      ;
            8200      ;
            8210      ;
            8220      ; Baud rate input table
            8230      ;
364E      8240      BAUDIN_TBL
364E A00B     8250      .WORD 2976     ;0 = 300 baud
3650 A00B     8260      .WORD 2976     ;1 = 300 baud
3652 A00B     8270      .WORD 2976     ;2 = 300 baud
3654 A00B     8280      .WORD 2976     ;3 = 300 baud
3656 A00B     8290      .WORD 2976     ;4 = 300 baud
3658 A00B     8300      .WORD 2976     ;5 = 300 baud
365A A00B     8310      .WORD 2976     ;6 = 300 baud
365C E316     8320      .WORD 5859     ;7 = 150 baud
365E A00B     8330      .WORD 2976     ;8 = 300 baud
3660 CC05     8340      .WORD 1484     ;9 = 600 baud
3662 E202     8350      .WORD 738      ;10 = 1200 baud
3664 EA01     8360      .WORD 490      ;11 = 1800 baud
3666 6D01     8370      .WORD 365      ;12 = 2400 baud
3668 6D01     8380      .WORD 365      ;13 = 2400 baud
366A 6D01     8390      .WORD 365      ;14 = 2400 baud
366C 6D01     8400      .WORD 365      ;15 = 2400 baud
            8410      ;
            8420      ;
            8430      ;
            8440      ;
            8450      ; HATABS table of vectors
            8460      ;
366E      8470      VEC_TABLE
366E 0532     8480      .WORD ROPEN-1
3670 DD31     8490      .WORD RCLOSE-1
3672 1633     8500      .WORD RGETBYTE-1
3674 2932     8510      .WORD RPUTBYTE-1
3676 9733     8520      .WORD RSTATUS-1
3678 0834     8530      .WORD RSPECIAL-1
367A 4CB334   8540      JMP RINIT
            8550      ;
            8560      ;
            8570      ;
            8580      ; Special XIO vectors
            8590      ;
367D      8600      VEC_SPECIAL

```

```

367D 4F34      8610      .WORD RXI032-1
367F 8634      8620      .WORD RXI034-1
3681 6B34      8630      .WORD RXI036-1
3683 9B34      8640      .WORD RXI038-1
3685 2534      8650      .WORD RXI040-1
               8660 ;
               8670 ;
               8680 ;
               8690 ; IO IRQ vectors
               8700 ;
3687           8710 VEC_IO
3687 2E35      8720      .WORD INPUT ;VSERIN
3689 6935      8730      .WORD OUTPUT ;VSEROR
368B 6935      8740      .WORD OUTPUT ;VSEDOC
               8750 ;
               8760 ;
               8770 ;
               8780 ; Variables
               8790 ;
368D           8800 IRQ_OLD *= ++2
368F           8810 DOSINI_OLD *= ++2
3691           8820 IN_BUFFER *= ++INBUF_LEN
3711           8830 OUT_BUFFER *= ++OUTBUF_LEN
3791           8840 OLD_VECTOR *= ++6
3797           8850 TXIN_PTR *= ++1
3798           8860 TXOUT_PTR *= ++1
3799           8870 RXIN_PTR *= ++1
379A           8880 RXOUT_PTR *= ++1
379B           8890 TX_DONE *= ++1
379C           8900 STAT *= ++1
379D           8910 MODE *= ++1
379E           8920 TRNPAR *= ++1
379F           8930 HVYTR *= ++1
37A0           8940 CONCUR *= ++1
37A1           8950 CHAR *= ++1
37A2           8960 ORBAUD *= ++1
               8970 ;
               8980 ;
               8990 ;
1020           .INCLUDE #D2:LOADNGO.M65
10 ;MICRO LOADER/RUN SYSTEM FOR MPP
20 ;SMART TERMINAL      10/4/84
30 ;STRUCTURE OF HEADERS IS:
40 ;BYTES 0->5 STOCK (FF FF SL SH EL EH)
50 ;WILL EXECUTE AT BYTES:  SL SH
60 ;DO NOT USE MULTIPLE ORIGIN FILES!!!
70 ;(USE BINARY SAVE FROM DOS2.0, ETC)
80 ;WOULD START AS:  *$BEGIN-3
90 ;                      JMP GO/INIT (3BYTES)
0100 ;                      BEGIN ACTUAL CODE
0110 ;
=37A3          0120 ROM . = *
37A3           0130      *= RAM
04B7 0000      0140 RFNAME .WORD 0
04B9           0150 HDRBFF *= ++6
=04BF          0160 RAM . = *
04BF           0170      *= ROM
37A3 207139    0180 GETHDR JSR CLOSEM

```

```

37A6 A230      0190      LDX ##30
37A8 A903      0200      LDA ##03
37AA 9D4203    0210      STA ICCOM, X
37AD ADB704    0220      LDA RFNAME
37B0 9D4403    0230      STA ICBAL, X
37B3 ADB804    0240      LDA RFNAME+1
37B6 9D4503    0250      STA ICBAL, X
37B9 A904      0260      LDA #4
37BB 9D4A03    0270      STA ICAX1, X
37BE A900      0280      LDA #0
37C0 9D4B03    0290      STA ICAX2, X
37C3 2056E4    0300      JSR CIOV
37C6 3048      0310      BMI OUTZ
37C8 A907      0320      GETEM LDA #7      ; READ BYTES
37CA 9D4203    0330      STA ICCOM, X
37CD A9B9      0340      LDA # <HDBFF
37CF 9D4403    0350      STA ICBAL, X
37D2 A904      0360      LDA # >HDBFF
37D4 9D4503    0370      STA ICBAL, X
37D7 A900      0380      LDA ##00
37D9 9D4903    0390      STA ICBLL, X
37DC A906      0400      LDA ##06      ; 6 BYTE HEADER
37DE 9D4803    0410      STA ICBLL, X
37E1 2056E4    0420      JSR CIOV
37E4 302A      0430      BMI OUTZ
37E6 ADBB04    0440      LDA HDBFF+2 ; LOADADDR
37E9 9D4403    0450      STA ICBAL, X
37EC ADBC04    0460      LDA HDBFF+3
37EF 9D4503    0470      STA ICBAL, X
37F2 A980      0480      LOOPZA LDA ##80
37F4 9D4803    0490      STA ICBLL, X
37F7 2056E4    0500      JSR CIOV
37FA 3014      0510      BMI OUTZ      ; ALL DONE?
37FC 18        0520      CLC
37FD BD4403    0530      LDA ICBAL, X
3800 6980      0540      ADC ##80
3802 9D4403    0550      STA ICBAL, X
3805 BD4503    0560      LDA ICBAL, X
3808 6900      0570      ADC ##00
380A 9D4503    0580      STA ICBAL, X
380D 4CF237    0590      JMP LOOPZA
3810 98        0600      OUTZ TYA
3811 48        0610      PHA
3812 A230      0620      LDX ##30      ; CANTUSEDISKERROR
3814 209A42    0630      JSR CIOCB      ; WILL HANGONBOOT
3817 68        0640      PLA
3818 C988      0650      CMP ##88
381A D006      0660      BNE NOWAY
381C 202538    0670      JSR RUNITZ
381F A001      0680      LDY ##01
3821 60        0690      RTS
3822           0700      RTS
3822           0710      NOWAY
3822 A0FF      0720      LDY ##FF
3824 60        0730      RTS
3825 6CBB04    0740      RUNITZ JMP (HDBFF+2)
           =3828 0750      ROM . = *
           1030      .INCLUDE #D2:XIO.M65
           10 ;

```



```

20 ;D:XIO.M65
30 ;MODEM XIOS AND THE
40 ;STATUS AND MODEM STATUS
50 ;
60 ;
70 ;XIO34 DOES DATA TERM READY
80 ;
3828          *= ROM
3828 00      95 DPLX .BYTE 0
3829 00     0100 DTR .BYTE 0
382A 00     0110 RTS .BYTE 0
382B 00     0120 RBAUD .BYTE 8
382C 00     0130 CRX .BYTE 0
382D 00     0140 CTS .BYTE 0
382E 00     0150 DSR .BYTE 0
382F 00     0160 TRAN .BYTE 0
3830 00     0170 PAR .BYTE 0
3831 00     0180 LF .BYTE 0
      =0003    0190 .LOCAL
3832     0200 XIO34
3832 A260    0210 LDX #MOD
3834 A922    0220 LDA #34
3836 9D4203  0230 STA ICCOM,X
3839 AD2938  0240 LDA DTR
383C 9D4A03  0250 STA ICAX1,X
383F AD2A38  0260 LDA RTS
3842 9D4B03  0270 STA ICAX2,X
3845 2056E4  0280 JSR CIOV
3848 60      0290 RTS
      0300 ;
      0310 ;XIO36 DOES RBAUD,CARRIER DET
      0320 ;      CLEAR TO SEND AND DATA
      0330 ;      SET READY
      0340 ;
3849     0350 XIO36
3849 A260    0360 LDX #MOD
384B A924    0370 LDA #36
384D 9D4203  0380 STA ICCOM,X
3850 AD2B38  0390 LDA RBAUD
3853 9D4A03  0400 STA ICAX1,X
3856 18      0410 CLC
3857 AD2C38  0420 LDA CRX
385A 6D2D38  0430 ADC CTS
385D 6D2E38  0440 ADC DSR
3860 9D4B03  0450 STA ICAX2,X
3863 2056E4  0460 JSR CIOV
3866 60      0470 RTS
      0480 ;
      0490 ;XIO38 DOES TRANSLAT,PARITY
      0500 ;      AND LINEFEED
      0510 ;
3867     0520 XIO38
3867 A260    0530 LDX #MOD
3869 A926    0540 LDA #38
386B 9D4203  0550 STA ICCOM,X
386E 18      0560 CLC
386F AD2F38  0570 LDA TRAN
3872 6D3038  0580 ADC PAR

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3875 6D3138      0590      ADC LF
3878 9D4A03      0600      STA ICAX1,X
387B A900        0610      LDA #0
387D 9D4B03      0620      STA ICAX2,X
3880 2056E4      0630      JSR CIOV
3883 60          0640      RTS
                 0650      ;
                 0660      ;XIO40 IS CONCURRENT IO AND
                 0670      ;      SETS BUFFERS UP
                 0680      ;
3884            0690      XIO40
3884 A260        0700      LDX #MOD
3886 A928        0710      LDA #40
3888 9D4203      0720      STA ICCOM,X
388B A900        0730      LDA #0
388D 9D4B03      0740      STA ICBLL,X
3890 9D4903      0750      STA ICBLH,X
3893 9D4403      0760      STA ICBAL,X
3896 9D4503      0770      STA ICBAL,X
3899 9D4A03      0780      STA ICAX1,X
389C 9D4B03      0790      STA ICAX2,X
389F 2056E4      0800      JSR CIOV
38A2 60          0810      RTS
      =38A3      0820      ROM . = *
                 1040      .INCLUDE #D2:MODC.M65
                 10      ; MODC.M65      11/9/85 RCR
                 20      ; PARFLG=0 NO PARITY
                 30      ; PARFLG=1 ODD
                 40      ; PARFLG=$80 EVEN
38A3            50          *= ROM
      =0080      60      CARDETLO = 128      ;HAYES STANDARD
38A3 00          70      ?Y1R .BYTE 0
38A4 00          80      FCNX .BYTE 0
38A5 00          90      FNCY .BYTE 0
38A6 00          0100     PARFLG .BYTE 0
38A7 00          0110     SCRAT .BYTE 0
                 0120      ;
38A8 A260        0130     READ LDX #MOD
38AA 8CA338      0140      STY ?Y1R
38AD A907        0150      LDA #GETBIN
38AF 9D4203      0160      STA ICCOM,X
38B2 A900        0170      LDA #0
38B4 9D4B03      0180      STA ICBLL,X
38B7 9D4903      0190      STA ICBLH,X
38BA 2056E4      0200      JSR CIOV
38BD ACA338      0210      LDY ?Y1R
38C0 60          0220      RTS
                 0230      ;
38C1 A260        0240     WRITE LDX #MOD
38C3 8CA338      0250      STY ?Y1R
38C6 48          0260      PHA
38C7 A908        0270      LDA #PUTBIN
38C9 9D4203      0280      STA ICCOM,X
38CC A900        0290      LDA #0
38CE 9D4B03      0300      STA ICBLL,X
38D1 9D4903      0310      STA ICBLH,X
38D4 68          0320      PLA
38D5 48          0330      PHA

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```

38D6 2056E4      0340      JSR CIOV
38D9 68          0350      PLA
38DA ACA338      0360      LDY ?Y1R
38DD 60          0370      RTS
                  0380      ;
38DE 60          0390      OFFHOOK RTS
38DF 60          0400      ONHOOK RTS
38E0 60          0410      MSPEC1 RTS
38E1 60          0420      MSPEC2 RTS
38E2 60          0430      MSPEC3 RTS
                  0440      ;
38E3            0450      WAITASEC
38E3 A900        0460      LDA #0
38E5 8514        0470      STA $14
38E7 A514        0480      ?W2 LDA $14
38E9 C906        0490      CMP #6
38EB 30FA        0500      BMI ?W2
38ED 60          0510      RTS
                  0520      ;
38EE            0530      STATUS
38EE A90D        0540      LDA #$0D
38F0 9D4203      0550      STA ICCOM,X
38F3 2056E4      0560      JSR CIOV
38F6 60          0570      RTS
                  0580      ;
=3901            0590      INITMODEM = RESETMODEM
=3901            0600      MODINIT = RESETMODEM
                  0610      ;
38F7            0620      BIGXIO
38F7 203238      0630      JSR XIO34
38FA 204938      0640      JSR XIO36
38FD 206738      0650      JSR XIO38
3900 60          0660      RTS
                  0670      ;
3901            0680      RESETMODEM
3901 A904        0690      LDA #4
3903 8D2E38      0700      STA DSR
3906 A901        0710      LDA #1
3908 8D2838      0720      STA DPLX
390B 8D2C38      0730      STA CRX
390E A908        0740      LDA #8
3910 8DC53A      0750      STA BAUD
3913 A900        0760      LDA #$00
3915 8D2F38      0770      STA TRAN
3918 A900        0780      LDA #0
391A 8D3038      0790      STA PAR
391D A930        0800      LDA #48
391F 8D2A38      0810      STA RTS
3922 A902        0820      LDA #2
3924 8D2D38      0830      STA CTS
3927 A9C0        0840      LDA #192
3929 8D2938      0850      STA DTR
392C 60          0860      RTS
                  0870      ;
392D            0880      MSTAT
392D            0890      MSTATS
392D A260        0900      LDX #MOD
392F A90D        0910      LDA #$0D

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```

3931 9D4203      0920      STA ICCOM,X
3934 2056E4      0930      JSR CIOV
3937 ADEB02      0940      LDA 747
393A 60          0950      RTS
                  0960      ;
393B            0970      RING?
393B 205139      0980      JSR OPENM      ;0 IF NORING
393E 202D39      0990      JSR MSTATS
3941 38          1000      SEC
3942 C580        1010      CMP CARDETLO
3944 B005        1020      BCS ?R1
3946 F003        1030      BEQ ?R1
394B A000        1040      ?RTN LDY #0      ;NORING
394A 60          1050      RTS
394B 20E338      1060      ?R1 JSR WAITASEC
394E A001        1070      LDY #1      ;RING
3950 60          1080      RTS
                  1090      ;
3951            1100      OPENM
3951 207139      1110      JSR CLOSEM
3954 A260        1120      LDX #MOD
3956 A903        1130      LDA #3      ;OPEN
3958 9D4203      1140      STA ICCOM,X
395B A980        1150      LDA # <RDEV
395D 9D4403      1160      STA ICBAL,X
3960 A904        1170      LDA # >RDEV
3962 9D4503      1180      STA ICBAL,X
3965 A90D        1190      LDA #$0D      ;DYNAMIC STAT
3967 9D4A03      1200      STA ICAX1,X
396A 2056E4      1210      JSR CIOV
396D 20F738      1220      JSR BIGXIO
3970 60          1230      ?DM1A RTS
                  1240      ;
3971            1250      CLOSE
3971            1260      CLOSEM
3971 A900        1270      LDA #0
3973 8514        1280      STA $14
3975 202D39      1290      ?CM1 JSR MSTATS
3978 ADED02      1300      LDA 749      ;BYTES IN OUTBUFF
397B F006        1310      BEQ ?CM2
397D A514        1320      LDA $14      ;4/60 SECOND
397F C90A        1330      CMP #10
3981 30F2        1340      BMI ?CM1
                  1350      ;?CM2 JSR WAITASEC
3983 A260        1360      ?CM2 LDX #MOD
3985 A90C        1370      LDA #$0C
3987 9D4203      1380      STA ICCOM,X
398A 2056E4      1390      JSR CIOV
398D 60          1400      RTS
                  1410      ;
398E A230        1420      CLOSED LDX #DSK
3990 A90C        1430      LDA #$0C
3992 E060        1440      CPX #MOD
3994 F0DB        1450      BEQ CLOSEM
3996 9D4203      1460      STA ICCOM,X
3999 2056E4      1470      JSR CIOV
399C 60          1480      RTS
                  1490      ;

```

```

399D      1500 OPENM2
399D 205139 1510      JSR OPENM
39A0 202D39 1520      JSR MSTATS
39A3 48     1530      PHA
39A4 208438 1540      JSR XI040
39A7 68     1550      PLA
39A8 38     1560      SEC
39A9 C580   1570      CMP CARDETLO ;X<CARDET ?
39AB B003   1580      BCS ?OM3
39AD A900   1590 ?OM5 LDA #0      ;NO CARRIER
39AF 60     1600      RTS
39B0 A901   1610 ?OM3 LDA #1      ;HAVE CARRIER
39B2 60     1620      RTS
      =39B3 1630 ROM . = *
      1050      .INCLUDE #D2:TERM.M65
      10      ; SAVE #D2:TERM.M65
      20      ;
      30      ;
39B3      40      *= ROM
      50      ;
39B3      60 XMBUFF *= ++130
3A35      70 TEMPBUFF *= ++130
3AB7 00     80 XTEMP .BYTE 0
3AB8 00     90 FIRSTBLOCK .BYTE 0
3AB9 00    0100 XTEMP1 .BYTE 0
3ABA 00    0110 XTEMP2 .BYTE 0
3ABB 00    0120 CHKSUM .BYTE 0
3ABC 00    0130 XMODF .BYTE 0
3ABD 00    0140 ERFL .BYTE 0
3ABE 00    0150 KEYTOG .BYTE 0
3ABF 00    0160 XBYTE .BYTE 0
3AC0 00    0170 LASTREC .BYTE 0
3AC1 00    0180 XBLKNUM .BYTE 0
3AC2 0000   0190 BFPTS .WORD 0
3AC4 00    0200 DERFLG .BYTE 0
3AC5 46    0210 BAUD .BYTE 70
3AC6 00    0220 ENDRAM .BYTE 0
3AC7 00    0230 LASTCH .BYTE 0
3AC8 00    0240 GOTREC .BYTE 0
3AC9 00    0250 PHONE .BYTE 0
3ACA 00    0260 OPFLG .BYTE 0
3ACB 0000   0270 SCPOS .BYTE 0,0
      0280      ;
      0290      ;
      0300      ;TERM
3ACD 205A3B 0310 LOOP1 JSR STKEY
3AD0 D003   0320      BNE CLOOP1
3AD2 4CAD4D 0330      JMP MENU      ;START KEY
3AD5 4C653B 0340 CLOOP1 JMP LOOP2
      0350      ;
3AD8 D005   0360      BNE JLP2
3ADA AD9E04 0370      LDA ANSFLG
3ADD D003   0380      BNE YANSF
3ADF 4C653B 0390 JLP2 JMP LOOP2
      0400      ;
3AE2 20A041 0410 YANSF JSR TESOPT
3AE5 F006   0420      BEQ NOOPT1
3AE7 8CCA3A 0430      STY OPFLG

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```

3AEA 203D3F      0440      JSR PXMES7 ; "SAVE ON" MSG
3AED ADC93A      0450 NOOPT1 LDA PHONE ; PHONE ANSWERED?
3AF0 F003        0460      BEQ PHYES
3AF2 4C683B      0470      JMP LOOP3
                 0480 ;
                 0490 ; CHECK PHONE FOR RETURN FROM MENU
                 0500 ;
3AF5 20E238      0510 PHYES JSR MSPEC3 ; RINGDETECT
3AF8 F0D3        0520      BEQ LOOP1
3AFA 20E238      0530 NORING JSR MSPEC3
3AFD D0FB        0540      BNE NORING
3AFF 20DE38      0550      JSR OFFHOOK
3B02 A900        0560      LDA #0
3B04 8513        0570      STA $13
3B06 A513        0580 WCARR LDA $13
3B08 C904        0590      CMP #4
3B0A 1037        0600      BPL HANGUP
3B0C 205A3B      0610      JSR STKEY
3B0F D003        0620      BNE NSTART
3B11 4CAD4D      0630 RTMENU JMP MENU
                 0640 ;
3B14 202D39      0650 NSTART JSR MSTATS
3B17 F0ED        0660      BEQ WCARR
3B19 A901        0670      LDA #1
3B1B 8DC93A      0680      STA PHONE ; PHONE ANSWERED
3B1E A900        0690      LDA #0
3B20 8514        0700      STA $14
3B22 A514        0710 FORSEC LDA $14
3B24 C914        0720      CMP ##14
3B26 D0FA        0730      BNE FORSEC ; ONE SECOND
                 0740 ; NOW HAVE CARRIER DETECTED
3B28 207139      0750      JSR CLOSE
3B2B 209D39      0760      JSR OPEN
3B2E ADC93A      0770      LDA OPFLG
3B31 F035        0780      BEQ LOOP3 ; SEND LOOP
3B33 8D9304      0790      STA DUPLF ; MAKE HALF DUPLEX
3B36 205A3B      0800 KEYSNT JSR STKEY
3B39 F0D6        0810      BEQ RTMENU
3B3B 202D39      0820      JSR MSTAT
3B3E F0F6        0830      BEQ KEYSNT
3B40 4CA13B      0840      JMP NENDTE
                 0850 ;
3B43 20DF38      0860 HANGUP JSR ONHOOK
3B46 20F430      0870      JSR STLINE
3B49 A900        0880      LDA #0
3B4B 8DC93A      0890      STA PHONE
3B4E 8DC802      0900      STA $02C8
3B51 8D9A04      0910      STA LOADF
3B54 8D9B04      0920      STA SAVEF
3B57 4CCD3A      0930      JMP LOOP1
                 0940 ;
3B5A A9F8        0950 STKEY LDA ##F8
3B5C 8D1FD0      0960      STA CONSOL
3B5F A901        0970      LDA #1
3B61 2C1FD0      0980      BIT CONSOL
3B64 60          0990      RTS
                 1000 ;
                 1010 ; RETURNS 0=PRESSED, 1=NOT PRESSED

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1020 ;WAIT HERE FOR CARRIER
1030 ;
3B65 209D39 1040 JSR OPENM2 ;OPENS CONCURNT
3B68 A900 1050 LOOP3 LDA #0
3B6A 854D 1060 STA $4D ;NO ATTRACT MODE
3B6C 20F430 1070 JSR STLINE
3B6F A511 1080 CAROK LDA BRKKEY
3B71 A9F8 1090 NOBRK1 LDA #$F8
3B73 8D1FD0 1100 STA CONSOL
3B76 AD8E3A 1110 LDA KEYTOG
3B79 F012 1120 BEQ TESTER
3B7B A904 1130 LDA #4
3B7D 2D1FD0 1140 AND CONSOL
3B80 D003 1150 BNE ENDTE1
3B82 4CED3B 1160 JMP ENDTEST
1170 ;
3B85 A900 1180 ENDTE1 LDA #0
3B87 8DBE3A 1190 STA KEYTOG
3B8A 4CED3B 1200 JMP ENDTEST
1210 ;
3B8D A901 1220 TESTER LDA #1
3B8F 2C1FD0 1230 BIT CONSOL
3B92 D003 1240 BNE NOSTART
3B94 4CAD4D 1250 JMP MENU
1260 ;
3B97 A904 1270 NOSTART LDA #4
3B99 2C1FD0 1280 BIT CONSOL
3B9C F003 1290 BEQ NENDTE
3B9E 4CED3B 1300 JMP ENDTEST
1310 ;
3BA1 ADC802 1320 NENDTE LDA $02C8
3BA4 F00B 1330 BEQ GREEN
3BA6 A900 1340 LDA #0
3BA8 8DC802 1350 STA $02C8
3BAB 20493F 1360 JSR PXMES8
3BAE 4CBE3B 1370 JMP CON76
1380 ;
3BB1 A9B4 1390 GREEN LDA #180
3BB3 8DC802 1400 STA $02C8
3BB6 AD9104 1410 LDA BINP
3BB9 D003 1420 BNE CON76
3BBB 203D3F 1430 JSR PXMES7
3BBE A901 1440 CON76 LDA #1
3BC0 8DBE3A 1450 STA KEYTOG
3BC3 AD9504 1460 LDA SAVMOD
3BC6 F015 1470 BEQ NOSAVM
3BC8 AD9B04 1480 LDA SAVEF
3BCB 4901 1490 EOR #1
3BCD 8D9B04 1500 STA SAVEF
3BD0 AD8A04 1510 LDA BOTBUF
3BD3 85D2 1520 STA SENPTR
3BD5 AD8B04 1530 LDA BOTBUF+1
3BD8 85D3 1540 STA SENPTR+1
3BDA 4CE53B 1550 JMP ENDOPT
1560 ;
3BDD AD9A04 1570 NOSAVM LDA LOADF
3BE0 4901 1580 EOR #1
3BE2 8D9A04 1590 STA LOADF

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3BE5 AD9104	1600 ENDOPT LDA BINF
3BE8 F003	1610 BEQ ENDTEST
3BEA 4CF43D	1620 JMP XMODEM
	1630 ;
3BED 202E42	1640 ENDTEST JSR SCREAD
3BF0 ADFC02	1650 LDA CH
3BF3 C9FF	1660 CMP #\$FF
3BF5 F029	1670 BEQ NOKEY
3BF7 20415A	1680 JSR GETKEY
3BFA 20853D	1690 JSR OUTCON
3BFD 48	1700 PHA
3BFE 20C138	1710 JSR WRITE
3C01 AD9304	1720 LDA DUPLF
3C04 F019	1730 BEQ DUPHLF
3C06 68	1740 PLA
3C07 20A33D	1750 JSR INCONV
3C0A 48	1760 PHA
3C0B A240	1770 LDX #\$40
3C0D A900	1780 LDA #0
3C0F 9D4803	1790 STA ICBLL, X
3C12 9D4903	1800 STA ICBLLH, X
3C15 A90B	1810 LDA #\$0B
3C17 9D4203	1820 STA ICCOM, X
3C1A 68	1830 PLA
3C1B 48	1840 PHA
3C1C 2056E4	1850 JSR CIOV
3C1F 68	1860 DUPHLF PLA
3C20 202D39	1870 NOKEY JSR MSTAT
3C23 D01C	1880 BNE INCH
3C25 D02C	1890 BNE NERK08
3C27 AD9B04	1900 LDA SAVEF
3C2A F012	1910 BEQ NOGO
3C2C 20133D	1920 JSR NOINCH
3C2F 100A	1930 BPL SENOUT
3C31 48	1940 PHA
3C32 20493F	1950 JSR FXMES8
3C35 68	1960 PLA
3C36 AC9804	1970 LDY DISKF
3C39 F003	1980 BEQ NOGO
3C3B 20CC3D	1990 SENOUT JSR OUTD01
3C3E 4C683B	2000 NOGO JMP LOOP3
	2010 ;
3C41 20A838	2020 INCH JSR READ
3C44 C001	2030 CPY #1
3C46 F00B	2040 BEQ NERK08
3C48 ADBD3A	2050 LDA ERFL
3C4B F003	2060 BEQ GOERR
3C4D 4C683B	2070 JMP LOOP3
	2080 ;
3C50 202251	2090 GOERR JSR DERR0R
3C53 8DC73A	2100 NERK08 STA LASTCH
3C56 20A33D	2110 JSR INCONV
3C59 48	2120 PHA
3C5A A240	2130 ?NK8A LDX #\$40
3C5C A900	2140 LDA #0
3C5E 8DBD3A	2150 STA ERFL
3C61 9D4803	2160 STA ICBLL, X
3C64 9D4903	2170 STA ICBLLH, X

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3C67 A90B      2180      LDA #$0B
3C69 9D4203    2190      STA ICCOM,X
3C6C 68        2200      PLA
3C6D 48        2210      PHA
3C6E 2056E4    2220      JSR CIOV
3C71 AD9A04    2230      ?NK8B LDA LOADF
3C74 F006      2240      BEQ GTERM
3C76 20803C    2250      JSR KEEPER
3C79 4C683B    2260      JMP LOOP3
                2270      ;
3C7C 68        2280      GTERM PLA
3C7D 4C683B    2290      JMP LOOP3
                2300      ;
                2310      ;CHAR ON STACK TO DISK/BUFFER
                2320      ;
3C80 68        2330      KEEPER PLA
3C81 AA        2340      TAX
3C82 68        2350      PLA
3C83 A8        2360      TAY
3C84 68        2370      PLA
3C85 8DB73A    2380      STA XTEMP
3C88 98        2390      TYA
3C89 48        2400      PHA
3C8A 8A        2410      TXA
3C8B 48        2420      PHA
3C8C ADB73A    2430      LDA XTEMP
3C8F 48        2440      PHA
3C90 AD9804    2450      LDA DISKF
3C93 0D9D04    2460      ORA DPRFLG
3C96 F022      2470      BEQ SAVTOBF
3C98 A230      2480      LDX #$30
3C9A A900      2490      LDA #0
3C9C 9D4803    2500      STA ICBLL,X
3C9F 9D4903    2510      STA ICBLLH,X
3CA2 A90B      2520      LDA #$0B
3CA4 9D4203    2530      STA ICCOM,X
3CA7 68        2540      PLA
3CA8 2056E4    2550      JSR CIOV
3CAB 3001      2560      BMI DSKERR
3CAD 60        2570      RTS
                2580      ;
3CAE 202251    2590      DSKERR JSR DERROR
3CB1 A900      2600      MCPERR LDA #0
3CB3 8D9A04    2610      STA LOADF
3CB6 8DC802    2620      STA $02CB
3CB9 60        2630      RTS
                2640      ;
3CBA A000      2650      SAVTOBF LDY #0
3CBC AD9C04    2660      LDA FULLF
3CBF F004      2670      BEQ NAFULL
3CC1 68        2680      PLA
3CC2 4CB13C    2690      JMP MCPERR
                2700      ;
3CC5 68        2710      NAFULL PLA
3CC6 91CC      2720      STA (BUFPTR),Y
3CC8 E6CC      2730      INC BUFPTR
3CCA D002      2740      BNE NOZIP
3CCD E6CD      2750      INC BUFPTR+1

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3CCE A5CC      2760 NOZIP LDA BUFPTR
3CD0 8D8E04    2770      STA MAXTOP
3CD3 A5CD      2780      LDA BUFPTR+1
3CD5 8D8F04    2790      STA MAXTOP+1
3CD8 AD8D04    2800      LDA BUFMAX+1
3CDB C5CD      2810      CMP BUFPTR+1
3CDD B033      2820      BCS NOBERR
3CDF A944      2830      LDA #68
3CE1 8DC802    2840      STA $02C8 ; BUFF FULL
3CE4 A900      2850      LDA #0
3CE6 8D1FD0    2860      STA CONSOL
3CE9 A5CD      2870      LDA BUFPTR+1
3CEB CD8904    2880      CMP TOPBUF+1
3CEE D022      2890      BNE NOBERR
3CF0 A5CC      2900      LDA BUFPTR
3CF2 CD8804    2910      CMP TOPBUF
3CF5 D01B      2920      BNE NOBERR
3CF7 C6CC      2930      DEC BUFPTR
3CF9 D002      2940      BNE NOTZE
3CFB C6CD      2950      DEC BUFPTR+1
3CFD          2960 NOTZE
3CFD A9FD      2970      LDA #$FD
3CFF 20E35A    2980      JSR ALLPC
3D02 A900      2990      LDA #0
3D04 8D9A04    3000      STA LOADF
3D07 8D9B04    3010      STA SAVEF
3D0A 8DC802    3020      STA $02C8
3D0D A901      3030      LDA #1
3D0F 8D9C04    3040      STA FULLF
3D12 60        3050 NOBERR RTS
              3060 ;
3D13 AD9804    3070 NOINCH LDA DISKF
3D16 D041      3080      BNE RDISK
3D18 A000      3090      LDY #0
3D1A B1D2      3100      LDA (SENPTR),Y
3D1C 48        3110      PHA
3D1D A5CC      3120      LDA BUFPTR
3D1F 38        3130      SEC
3D20 E5D2      3140      SBC SENPTR
3D22 D01C      3150      BNE NOSFUL
3D24 A5D3      3160 CONTI2 LDA SENPTR+1
3D26 C5CD      3170      CMP BUFPTR+1
3D28 D016      3180      BNE NOSFUL
3D2A A900      3190      LDA #0
3D2C 8D9B04    3200      STA SAVEF
3D2F 8DC802    3210      STA $02C8
3D32 AD8A04    3220      LDA BOTBUF
3D35 85D2      3230      STA SENPTR
3D37 AD8B04    3240      LDA BOTBUF+1
3D3A 85D3      3250      STA SENPTR+1
3D3C 68        3260      PLA
3D3D A080      3270      LDY #$80
3D3F 60        3280      RTS
              3290 ;
3D40 E6D2      3300 NOSFUL INC SENPTR
3D42 D002      3310      BNE RETOK2
3D44 E6D3      3320      INC SENPTR+1
3D46 68        3330 RETOK2 PLA

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3D47 A001	3340	LDY #1	
3D49 60	3350	RTS	
	3360	;	
3D4A A900	3370	RETER2 LDA #0	
3D4C 8D9B04	3380	STA SAVEF	
3D4F 8DC802	3390	STA #02C8	
3D52 200B42	3400	JSR DSKFIX	
3D55 68	3410	PLA	
3D56 A080	3420	LDY ##80	
3D58 60	3430	RTS	
	3440	;	
3D59 A230	3450	RDISK LDX ##30	
3D5B A907	3460	LDA ##07	
3D5D 9D4203	3470	STA ICCOM, X	
3D60 A900	3480	LDA #0	
3D62 8DC43A	3490	STA DERFLG	
3D65 9D4803	3500	STA ICBLL, X	
3D68 9D4903	3510	STA ICBLLH, X	
3D6B 2056E4	3520	JSR CIOV	
3D6E 48	3530	PHA	
3D6F C003	3540	CPY #3	;LASTBYTE OF FILE?
3D71 F0D7	3550	BEQ RETER2	
3D73 98	3560	TYA	;SET FLAGS
3D74 100B	3570	BPL NERR4	
3D76 202251	3580	NOEOF JSR DERROR	
3D79 A901	3590	LDA #1	
3D7B 8DC43A	3600	STA DERFLG	
3D7E 4C4A3D	3610	JMP RETER2	
	3620	;	
3D81 68	3630	NERR4 PLA	
3D82 A001	3640	LDY #1	
3D84 60	3650	RTS	
	3660	;	
	3670	;CONVERT OUTGOING CHARACTER	
	3680	;	
3D85 AE9004	3690	OUTCON LDX TRANF	
3D88 D018	3700	BNE NBSP	
3D8A C99B	3710	CMP ##9B	
3D8C D002	3720	BNE NCR	
3D8E A90D	3730	LDA #13	
3D90 C97D	3740	NCR CMP ##7D	
3D92 D002	3750	BNE NCLR	
3D94 A90C	3760	LDA #12	
3D96 C9FD	3770	NCLR CMP ##FD	
3D98 D002	3780	BNE NBEL	
3D9A A907	3790	LDA #7	
3D9C C97E	3800	NBEL CMP ##7E	
3D9E D002	3810	BNE NBSP	
3DA0 A908	3820	LDA #8	
3DA2 60	3830	NBSP RTS	
	3840	;	
	3850	;CONVERT INCOMING CHARACTER	
	3860	;	
3DA3 AE9004	3870	INCONV LDX TRANF	
3DA6 D023	3880	BNE NOTRAN	
3DA8 297F	3890	AND ##7F	
3DAA C90D	3900	CMP #13	
3DAC D002	3910	BNE NOCR	

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3DAE A99B      3920      LDA ##9B
3DB0 C907      3930 NOCR CMP #7
3DB2 D002      3940      BNE NOBEL
3DB4 A9FD      3950      LDA ##FD
3DB6 C908      3960 NOBEL CMP #8
3DB8 D002      3970      BNE NOBSP
3DBA A97E      3980      LDA ##7E
3DBC C90C      3990 NOBSP CMP #12
3DBE D002      4000      BNE NOCLR
3DC0 A97D      4010      LDA ##7D
3DC2 C920      4020 NOCLR CMP #32
3DC4 B005      4030      BCS NOTRAN
3DC6 68        4040      PLA
3DC7 68        4050      PLA
3DC8 4C683B    4060      JMP LOOP3
3DCB 60        4070 ;
                4080 NOTRAN RTS
                4090 ;
                4100 ;SEND CHAR SCREEN/MODEM W/CONVRT
                4110 ;
3DCC 48        4120 OUTD01 PHA
3DCD 48        4130      PHA
3DCE 18        4140      CLC
3DCF 68        4150      PLA
3DD0 20853D    4160      JSR OUTCON
3DD3 20C138    4170      JSR WRITE
3DD6 AE9304    4180      LDX DUPLF
3DD9 D012      4190      BNE ECHO
3ddb A500      4200      LDA $00
3DDD 8514      4210      STA $14
3DDF A514      4220 ?LP1 LDA $14
3DE1 C901      4230      CMP #1
3DE3 F00D      4240      BEQ NECHO
3DE5 202D39    4250      JSR MSTAT
3DE8 ADED02    4260      LDA 749
3DEB D0F2      4270      BNE ?LP1
3DED 68        4280 ECHO PLA
3DEE 48        4290      PHA
3DEF 20E35A    4300      JSR ALLPC
3DF2 68        4310 NECHO PLA
3DF3 60        4320      RTS
                4330 ;
                4340 ;XMODEM /USES LOADF AND SAVEF
                4350 ;
=0001          4360 SOH = 1
=0004          4370 EOT = 4
=0006          4380 ACK = 6
=0015          4390 NAK = 21
=0018          4400 CAN = 24
                4410 ;
3DF4 A900      4420 XMODEM LDA #0
3DF6 8DC83A    4430      STA GOTREC
3DF9 A5CC      4440      LDA BUFPTR
3DFB 8DC23A    4450      STA BFPTS
3DFE A5CD      4460      LDA BUFPTR+1
3E00 8DC33A    4470      STA BFPTS+1
3E03 AD9A04    4480      LDA LOADF
3E06 F003      4490      BEQ XMSAVE

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3E08 4C673F      4500      JMP XMLoad
                  4510 ;
3E0B 205E3F      4520 XMSAVE JSR PXMES6
3E0E A902        4530      LDA #2
3E10 8DC13A      4540      STA XBLKNUM
3E13 A900        4550      LDA #0
3E15 8DC43A      4560      STA DERFLG
3E18 8DC03A      4570      STA LASTREC
3E1B 20E73E      4580      JSR GREC
3E1E D003        4590      BNE XSNLP
3E20 4C7C3E      4600      JMP WHAP
                  4610 ;
3E23 EA          4620 XSNLP NOP          ;LDA LASTCH
                  4630 ;      CMP #NAK
                  4640 ;      BEQ RETRY1
3E24 A90A        4650 SENREC LDA #10
3E26 8DBF3A      4660      STA XBYTE
3E29 205941      4670 CON1 JSR GXCHAR
3E2C 1008        4680      BPL NTIME
3E2E CEBF3A      4690      DEC XBYTE
3E31 D0F6        4700      BNE CON1
3E33 4C643E      4710      JMP RETRY1
                  4720 ;
3E36 D01A        4730 NTIME BNE NOEKCH ;NOOUT
3E38 4CA340      4740      JMP OPSTOP
                  4750 ;
3E3B            4760 NOOUT
3E3B CDBB3A      4770      CMP CHKSUM
3E3E D012        4780      BNE NOEKCH ; ECHO THE CHKSUM?
3E40 A908        4790      LDA #8
3E42 8DBF3A      4800      STA XBYTE
3E45 205941      4810 NOTAGN JSR GXCHAR
3E48 1008        4820      BPL NOEKCH
3E4A CEBF3A      4830      DEC XBYTE
3E4D D0F6        4840      BNE NOTAGN ; WAIT ACK OR NAK
3E4F ADBB3A      4850      LDA CHKSUM ; CHKSUM=ACK
3E52 C906        4860 NOEKCH CMP #ACK
3E54 F014        4870      BEQ REMRDY
3E56 C915        4880      CMP #NAK
3E58 F00A        4890      BEQ RETRY1
3E5A C918        4900      CMP #CAN
3E5C D003        4910      BNE NOTCAN
3E5E 4C1041      4920      JMP REMABOR
                  4930 ;
3E61 4C243E      4940 NOTCAN JMP SENREC
                  4950 ;
3E64 CEC13A      4960 RETRY1 DEC XBLKNUM
3E67 4C873E      4970      JMP CONGO
                  4980 ;
3E6A ADC43A      4990 REMRDY LDA DERFLG
3E6D F008        5000      BEQ SEOT
3E6F A900        5010      LDA #0
3E71 8DC43A      5020      STA DERFLG
3E74 4CA340      5030      JMP OPSTOP
                  5040 ;
3E77 20E73E      5050 SEOT JSR GREC
3E7A D00B        5060      BNE CONGO ;GOT DATA TO SEND
3E7C A904        5070 WHAP LDA #EOT

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3E7E 20C138      5080      JSR WRITE
3E81 201E41      5090      JSR EOTMES
3E84 4CC841      5100      JMP XMEXIT
                    5110 ;
3E87 A901        5120 CONGO LDA #SOH
3E89 20C138      5130      JSR WRITE
3E8C ADC13A      5140      LDA XBLKNUM
3E8F 20C138      5150      JSR WRITE
3E92 ADC13A      5160      LDA XBLKNUM
3E95 49FF        5170      EOR #$FF
3E97 20C138      5180      JSR WRITE
3E9A ADC13A      5190      LDA XBLKNUM
3E9D 20E441      5200      JSR PBLKNUM
3EA0 A900        5210      LDA #0
3EA2 8DBB3A      5220      STA CHKSUM
3EA5 A980        5230      LDA #128
3EA7 8DBF3A      5240      STA XBYTE
3EAA ACBF3A      5250 XSENLP LDY XBYTE
3EAD 89B339      5260      LDA XMBUFF,Y
3EB0 48          5270      PHA
3EB1 18          5280      CLC
3EB2 6DBB3A      5290      ADC CHKSUM
3EB5 8DBB3A      5300      STA CHKSUM
3EB8 68          5310      PLA
3EB9 20C138      5320      JSR WRITE
3EBC 20A041      5330      JSR TESOPT
3EBF F005        5340      BEQ NOOPT
3EC1 A901        5350      LDA #1
3EC3 8DC43A      5360      STA DERFLG
3EC6 CEBF3A      5370 NOOPT DEC XBYTE
3EC9 D0DF        5380      BNE XSENLP
3ECB ADBB3A      5390      LDA CHKSUM
3ECE 20C138      5400      JSR WRITE
3ED1 EEC13A      5410      INC XBLKNUM
3ED4 D003        5420      BNE BUGG2
3ED6 EEC13A      5430      INC XBLKNUM
3ED9 A00A        5440 BUGG2 LDY #10
3EDB A514        5450 LUP LDA #14
3EDD C514        5460 LUPNOW CMP #14
3EDF F0FC        5470      BEQ LUPNOW
3EE1 88          5480      DEY
3EE2 D0F7        5490      BNE LUP
3EE4 4C243E      5500      JMP SENREC
                    5510 ;
                    5520 ; GET REC FROM DISK OR MEMORY AND
                    5530 ; PUT IT IN THE XMBUFF AND PAD THE
                    5540 ; SET 'Y' TO
                    5550 ;     1 IF RECORD IN BUFF
                    5560 ;     0 EOF
                    5570 ;
3EE7 207139      5580 GREG JSR CLOSEM
3EEA ADC03A      5590      LDA LASTREC
3EED F006        5600      BEQ STOK
3EEF 209D39      5610      JSR OPENM2
3EF2 A000        5620      LDY #0
3EF4 60          5630      RTS
                    5640 ;
3EF5 A980        5650 STOK LDA #128

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3EF7 8DBF3A      5660      STA XBYTE
3EFA 20133D      5670 STOK2 JSR NOINCH
3EFD 08          5680      PHP
3EFE ACBF3A      5690      LDY XBYTE
3F01 99B339      5700      STA XMBUFF,Y
3F04 28          5710      PLP
3F05 102B        5720      BPL MOCHR
3F07 AD9804      5730      LDA DISKF      ; FIX IT LAST CHAR FROM MEM IS NOT GOOD
3F0A D00B        5740      BNE DONT
3F0C C8          5750      INY
3F0D C081        5760      CPY #129      ; IS THE LAST CHAR THE START OF A NEW REC
3F0F D006        5770      BNE DONT      ; WERE OK
                    5780 ; THIS IS A BAD REC SO RETURN
3F11 209D39      5790      JSR OPENM2
3F14 A000        5800      LDY #0
3F16 60          5810      RTS
                    5820 ;
3F17 88          5830 DONT DEY
3F18 F00F        5840      BEQ RTFOL
3F1A 8CBF3A      5850      STY XBYTE
3F1D A980        5860      LDA #128
3F1F 38          5870      SEC
3F20 EDBF3A      5880      SBC XBYTE
3F23 99B339      5890 PADLOP STA XMBUFF,Y
3F26 88          5900      DEY
3F27 D0FA        5910      BNE PADLOP
3F29 209D39      5920 RTFOL JSR OPENM2
3F2C A001        5930      LDY #1
3F2E 8CC03A      5940      STY LASTREC
3F31 60          5950      RTS
                    5960 ;
3F32 CEBF3A      5970 MOCHR DEC XBYTE
3F35 D0C3        5980      BNE STOK2
3F37 209D39      5990      JSR OPENM2
3F3A A001        6000      LDY #1
3F3C 60          6010      RTS
                    6020 ;
3F3D 20DD5A      6030 PXMES7 JSR CRET
3F40 A958        6040      LDA #88
3F42 205C5A      6050      JSR PLINE
3F45 20E15A      6060      JSR BUZZR
3F48 60          6070      RTS
                    6080 ;
3F49 20DD5A      6090 PXMES8 JSR CRET
3F4C A959        6100      LDA #89
3F4E 205C5A      6110      JSR PLINE
3F51 20E15A      6120      JSR BUZZR
3F54 60          6130      RTS
                    6140 ;
3F55 20DD5A      6150 PXMES1 JSR CRET
3F58 A954        6160      LDA #84
3F5A 205C5A      6170      JSR PLINE
3F5D 60          6180      RTS
                    6190 ;
3F5E 20DD5A      6200 PXMES6 JSR CRET
3F61 A957        6210      LDA #87
3F63 205C5A      6220      JSR PLINE
3F66 60          6230      RTS

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3F67 20553F 6240 ;
3F6A A901 6250 XMLOAD JSR PXMES1
3F6C 8DC13A 6260 LDA #1
3F6F 8DB83A 6270 STA XBLKNUM
3F72 A915 6280 STA FIRSTBLOCK
3F74 20C138 6290 XRETRY LDA #NAK ; START DOWNLOAD
3F77 A90A 6300 JSR WRITE
3F79 8DBB3A 6310 GETREC LDA #10
3F7C 205941 6320 STA CHKSUM
3F7F 1008 6330 GETRTY JSR GXCHAR
3F81 CEBB3A 6340 BPL NXTOK
3F84 D0F6 6350 DEC CHKSUM
3F86 4C723F 6360 BNE GETRTY
6370 JMP XRETRY
6380 ;
3F89 D003 6390 NXTOK BNE NOPST ; OPERATOR ABORT
3F8B 4CA340 6400 JMP OPSTOP
6410 ;
3F8E C901 6420 NOPST CMP #SOH
3F90 F029 6430 BEQ GSOH
3F92 C904 6440 CMP #EOT
3F94 D00B 6450 BNE NREMSTO
3F96 A906 6460 ; LDA #ACK ; NEED TO ACK EOT
3F98 20C138 6470 ; JSR WRITE ; FOR COMPU-SERVE
3F9B 20CE40 6480 JSR SAVELAST
3F9E 4C0541 6490 NOREC3 JMP REMSTOP
6500 ;
3FA1 C918 6510 NREMSTO CMP #CAN
3FA3 D003 6520 BNE XBADSH
3FA5 4C1041 6530 JMP REMABOR
6540 ;
3FA8 C915 6550 XBADSH CMP #NAK ; ECHO ACK OR NAK?
3FAA F0D0 6560 BEQ GETRTY
3FAC C906 6570 CMP #ACK
3FAE F0CC 6580 BEQ GETRTY
3FB0 202A41 6590 JSR XIGREC
3FB3 D003 6600 BNE NOST2
3FB5 4CA340 6610 JMP OPSTOP
6620 ;
3FB8 4C723F 6630 NOST2 JMP XRETRY
6640 ;
3FBB ADC83A 6650 GSOH LDA GOTREC
3FBE 205941 6660 JSR GXCHAR
3FC1 30AF 6670 BMI XRETRY
3FC3 D003 6680 BNE NOPSTOP
3FC5 4CA340 6690 JMP OPSTOP
6700 ;
3FC8 49FF 6710 NOPSTOP EOR #$FF ; IS THE BLOCK #
3FCA 8DBA3A 6720 STA XTEMP2 ; THE SAME AS
3FCD 205941 6730 JSR GXCHAR ; 1'S COMP?
3FD0 30A0 6740 BMI XRETRY
3FD2 D003 6750 BNE NOPST2
3FD4 4CA340 6760 JMP OPSTOP
6770 ;
3FD7 CDBA3A 6780 NOPST2 CMP XTEMP2
3FDA F00B 6790 BEQ BLKNUM
3FDC 202A41 6800 JSR XIGREC
3FDF D003 6810 BNE XIGOP3

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out 6/5/86 maw

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3FE1 4CA340      6820      JMP OPSTOP
                  6830      ;
3FE4 4C723F      6840      XIGOP3 JMP XRETRY
                  6850      ;
3FE7 49FF        6860      BLKNUM EOR #$FF
3FE9 CDC13A      6870      CMP XBLKNUM ; AM I GETTING
3FEC F021        6880      BEQ XNUMOK ; THE RIGHT BLK
3FEE CEC13A      6890      DEC XBLKNUM
3FF1 CDC13A      6900      CMP XBLKNUM ; SAME BLK AGAIN?
3FF4 08          6910      PHP
3FF5 EEC13A      6920      INC XBLKNUM
3FF8 202A41      6930      JSR XIGREC
3FFB D004        6940      BNE XIG4
3FFD 28          6950      PLP
3FFE 4CA340      6960      JMP OPSTOP
                  6970      ;
4001 28          6980      XIG4 PLP
4002 F003        6990      BEQ XACKCO ; ACK IT AND CONT.
4004 4C1041      7000      JMP REMABOR
                  7010      ;
4007 A906        7020      XACKCO LDA #ACK
4009 20C13B      7030      JSR WRITE
400C 4C773F      7040      JMP GETREC
                  7050      ;
400F 20E441      7060      XNUMOK JSR PBLKNUM
4012 A280        7070      LDX #128
4014 A900        7080      LDA #0
4016 8DBB3A      7090      STA CHKSUM
4019 8EBA3A      7100      XMLOP STX XTEMP2
401C 205941      7110      JSR GXCHAR
401F 1003        7120      BPL XOK2
4021 20723F      7130      JSR XRETRY
4024 F07D        7140      XOK2 BEQ OPSTOP
4026 AEBA3A      7150      LDX XTEMP2
4029 48          7160      PHA
402A 18          7170      CLC
402B 6DBB3A      7180      ADC CHKSUM
402E 8DBB3A      7190      STA CHKSUM
4031 68          7200      PLA
4032 9DB339      7210      STA XMBUFF, X
4035 CA          7220      DEX
4036 D0E1        7230      BNE XMLOP
4038 205941      7240      JSR GXCHAR
403B 1003        7250      BPL XOK1
403D 4C723F      7260      JMP XRETRY
                  7270      ;
4040 F061        7280      XOK1 BEQ OPSTOP
4042 CDBB3A      7290      CMP CHKSUM
4045 F008        7300      BEQ GOODREC
4047 A900        7310      LDA #0
4049 8DC83A      7320      STA GOTREC
404C 4C723F      7330      JMP XRETRY
                  7340      ;
404F A901        7350      GOODREC LDA #1
4051 8DC83A      7360      STA GOTREC
4054 ADBB3A      7370      LDA FIRSTBLOCK
4057 D003        7380      BNE ?XT
4059 208340      7390      JSR SAVREC

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405C 207740      7400 ?XT JSR MOVEBLOCK
405F A900      7410 LDA #0
4061 8DB83A      7420 STA FIRSTBLOCK
4064 A906      7430 LDA #ACK
4066 20C138      7440 JSR WRITE
4069 EEC13A      7450 INC XBLKNUM
406C ADC13A      7460 LDA XBLKNUM ; THESE ARE SO
406F D003      7470 BNE BUGG1 ; XBLKNUM WRAPS
4071 EEC13A      7480 INC XBLKNUM ; TO 1, NOT 0!
4074 4C773F      7490 BUGG1 JMP GETREC
                7500 ;
4077            7510 MOVEBLOCK
4077 A280      7520 LDX ##80
4079 BDB339      7530 ?XL LDA XMBUFF, X
407C 9D353A      7540 STA TEMPBUFF, X
407F CA        7550 DEX
4080 10F7      7560 BPL ?XL
4082 60        7570 RTS
                7580 ;
4083 207139      7590 SAVREC JSR CLOSEM
4086 A280      7600 LDX #128
4088 8EBF3A      7610 STX XBYTE
408B AEBF3A      7620 RECLOP LDX XBYTE
408E BD353A      7630 LDA TEMPBUFF, X
4091 48        7640 PHA
4092 20803C      7650 JSR KEEPER
4095 AD9A04      7660 LDA LOADF
4098 F009      7670 BEQ OPSTOP
409A CEBF3A      7680 DEC XBYTE
409D D0EC      7690 BNE RECLOP
409F 209D39      7700 JSR OPENM2
40A2 60        7710 RTS
                7720 ;
40A3 ADC23A      7730 OPSTOP LDA BFPTS
40A6 85CC      7740 STA BUFPTR
40A8 8D8E04      7750 STA MAXTOP
40AB ADC33A      7760 LDA BFPTS+1
40AE 85CD      7770 STA BUFPTR+1
40B0 8D8F04      7780 STA MAXTOP+1
40B3 AD9804      7790 LDA DISKF
40B6 F003      7800 BEQ NODSK
40B8 200B42      7810 JSR DSKFIX
40BB A901      7820 NODSK LDA #1
40BD 8DBE3A      7830 STA KEYTOG
40C0 202A41      7840 JSR XIGREC
40C3 A918      7850 LDA #CAN
40C5 20C138      7860 JSR WRITE
40C8 201E41      7870 JSR EOTMES
40CB 4CC841      7880 JMP XMEXIT
                7890 ;
40CE A201      7900 SAVELAST LDX #1
40D0 BDB339      7910 LDA XMBUFF, X
40D3 8DBF3A      7920 STA XBYTE
40D6 38        7930 SEC
40D7 A980      7940 LDA #128
40D9 EDBF3A      7950 SBC XBYTE
40DC 8DC83A      7960 STA GOTREC
40DF 207139      7970 SAV JSR CLOSEM

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40E2 A280      7980      LDX #128
40E4 8EBF3A    7990      STX XBYTE
40E7 AEBF3A    8000 LZF  LDX XBYTE
40EA BDB339    8010      LDA XMBUFF,X
40ED 48        8020      PHA
40EE 20803C    8030      JSR KEEPER
40F1 AD9A04    8040      LDA LOADF
40F4 F0AD      8050      BEQ OPSTOP
40F6 CEBF3A    8060      DEC XBYTE
40F9 ADBF3A    8070      LDA XBYTE
40FC CDC83A    8080      CMP GOTREC
40FF D0E6      8090      BNE LZF
4101 209D39    8100      JSR OPENM2
4104 60        8110      RTS
                8120 ;
4105          8130 REMSTOP
4105 A906      8140      LDA #ACK
4107 20C138    8150      JSR WRITE
410A 201E41    8160      JSR EOTMES
410D 4CC841    8170      JMP XMEXIT
                8180 ;
4110 20DD5A    8190 REMABOR JSR CRET
4113 A956      8200      LDA #86
4115 205C5A    8210      JSR PLINE
4118 20E15A    8220      JSR BUZZR
411B 4CA340    8230      JMP OPSTOP
                8240 ;
411E 20DD5A    8250 EOTMES JSR CRET
4121 A955      8260      LDA #85
4123 205C5A    8270      JSR PLINE
4126 20E15A    8280      JSR BUZZR
4129 60        8290      RTS
                8300 ;
                8310 ; WAIT FOR A SECOND BETWEEN
                8320 ; CHARACTERS AND THEN RETURN
                8330 ; OR ABORT WITH OPTION KEY
412A A93E      8340 ; 'Y' =
412C 8DB73A    8350 ; 0      ABORT WITH OPTION KEY
412F 20A041    8360 ; 1      ONE SECOND HAS ELAPSED
4132 F003      8370 ;
4134 A000      8380 XIGREC LDA #62 ; WAS 62, NOW 2SEC
4136 60        8390      STA XTEMP
                8400 XIGRC1 JSR TESOPT
4137 202D39    8410      BEQ TST2
413A F00B      8420      LDY #0
413C 20A838    8430      RTS
                8440 ;
413F 208041    8450 TST2 JSR MSTAT
4142 A93C      8460      BEQ NOCHAR
4144 8DB73A    8470      JSR READ
4147 A514      8480      JSR PIT
4149 CDB93A    8490      LDA #60
414C F0E1      8500      STA XTEMP
414E 8DB93A    8510 NOCHAR LDA #14
4151 CEB73A    8520      CMP XTEMP1
                8530      BEQ XIGRC1
                8540      STA XTEMP1
                8550      DEC XTEMP

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4154 D0D9      8560      BNE XIGRC1
4156 A001      8570      LDY #1
4158 60        8580      RTS
                8590      ;
                8600      ; GET CHARMODEM OR ABORT OPTIONKEY
                8610      ;      'Y' =
                8620      ;      1      OK CHAR IN A REG
                8630      ;      0      OPTION KEY ABORT
                8640      ;      $80     OVER 1 SECOND ABORT
                8650      ;
4159 A97C      8660      GXCHAR LDA #124
415B 8DB73A     8670      STA XTEMP
415E 20A041     8680      GXC JSR TESOPT ; OPTION KEY DOWN
4161 F003      8690      BEQ TSTBUF
4163 A000      8700      LDY #0
4165 60        8710      RTS
                8720      ;
4166 202D39     8730      TSTBUF JSR MSTAT
4169 D012      8740      BNE INCHAR
416B A514      8750      LDA #14
416D CDB93A     8760      CMP XTEMP1
4170 F0EC      8770      BEQ GXC
4172 8DB93A     8780      STA XTEMP1
4175 CEB73A     8790      DEC XTEMP
4178 D0E4      8800      BNE GXC
417A A080      8810      LDY #$80
417C 60        8820      RTS
                8830      ;
417D 20A838     8840      INCHAR JSR READ
4180 48        8850      PIT PHA
4181 A901      8860      LDA #1
4183 8DFE02     8870      STA DSPFLG
4186 A90B      8880      LDA #$0B
4188 A240      8890      LDX #$40
418A 9D4203     8900      STA ICCOM, X
418D A900      8910      LDA #0
418F 9D4803     8920      STA ICBLL, X
4192 68        8930      PLA
4193 48        8940      PHA
4194 2056E4     8950      JSR CIOV
4197 A900      8960      LDA #0
4199 8DFE02     8970      STA DSPFLG
419C 68        8980      PLA
419D A001      8990      LDY #1
419F 60        9000      RTS
                9010      ;
                9020      ; IS THE OPTION KEY DOWN.
                9030      ;      'Y' = 1 YES
                9040      ;      'Y' = 0 NO
                9050      ;
41A0 A9F8      9060      TESOPT LDA #$F8
41A2 8D1FD0     9070      STA CONSOL
41A5 ADBE3A     9080      LDA KEYTOG
41A8 F00C      9090      BEQ INTEST
41AA A904      9100      LDA #4
41AC 2D1FD0     9110      AND CONSOL
41AF F005      9120      BEQ INTEST
41B1 A900      9130      LDA #0

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41B3 8DBE3A      9140      STA KEYTOG
41B6 ADBE3A      9150  INTEST LDA KEYTOG
41B9 D00A        9160      BNE NOTNOW
41BB A904        9170      LDA #4
41BD 2C1FD0      9180      BIT CONSOL
41C0 D003        9190      BNE NOTNOW
41C2 A001        9200      LDY #1
41C4 60          9210      RTS
                   9220 ;
41C5 A000        9230  NOTNOW LDY #0
41C7 60          9240      RTS
                   9250 ;
41C8 207139      9260  XMEXIT JSR CLOSEM
41CB A900        9270      LDA #0
41CD 8DC802      9280      STA $02C8
41D0 8D9A04      9290      STA LOADF
41D3 8D9B04      9300      STA SAVEF
41D6 8D9B04      9310      STA DISKF
41D9 A230        9320      LDX #$30
41DB 209A42      9330      JSR CIOCB      ;CLOSE DISK BUG
41DE 209D39      9340      JSR OPENM2
41E1 4C683B      9350      JMP LOOP3
                   9360 ;
41E4 85D4        9370 ; PRINT XMES3 AND THE BLOCK # IN A
41E6 A900        9380  PBLKNUM STA FR0 ; PRINT BLOCK #
41E8 85D5        9390      LDA #0
41EA 20AAD9      9400      STA FR0+1
41ED 20E6D8      9410      JSR IFF
41F0 A240        9420      JSR FASC
41F2 A96F        9430      LDX #$40
41F4 9D4403      9440      LDA # (XMES3
41F7 A94C        9450      STA ICBAL, X
41F9 9D4503      9460      LDA # )XMES3
41FC A917        9470      STA ICBAL, X
41FE 9D4803      9480      LDA #23
4201 20D45A      9490      STA ICBLL, X
4204 200152      9500      JSR ALLPX
4207 20DD5A      9510      JSR PASC
420A 60          9520      JSR CRET
                   9530      RTS
                   9540 ;
420B 207139      9550  DSKFIX JSR CLOSEM
420E A230        9560      LDX #$30
4210 A90C        9570      LDA #$0C
4212 9D4203      9580      STA ICCOM, X
4215 2056E4      9590      JSR CIOV
4218 A903        9600      LDA #$03      ;????????????
421A 9D4203      9610      STA ICCOM, X
421D A996        9620      LDA # (BUFF
421F 9D4403      9630      STA ICBAL, X
4222 A900        9640      LDA # )BUFF
4224 9D4503      9650      STA ICBAL, X
4227 2056E4      9660      JSR CIOV
422A 209D39      9670      JSR OPENM2
422D 60          9680      RTS
                   9690 ;
422E            9700  SCREAD
422E AD9704      9710      LDA COLFLG

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4231 3066      9720      BMI TIGGZ
4233 AD1FD0    9730      LDA CONSOL
4236 C905      9740      CMP #5
4238 D05F      9750      BNE TIGGZ
423A A554      9760      LDA $54
423C F05B      9770      BEQ TIGGZ
423E 8DCB3A    9780      STA SCPOS
4241 A555      9790      LDA $55
4243 8DCC3A    9800      STA SCPOS+1
4246 A9B4      9810      LDA #180
4248 8DC802    9820      STA $02C8
424B A900      9830      LDA #0
424D 8554      9840      STA $54
424F 8555      9850      STA $55
4251 8DBB02    9860      STA $02BB
4254 A90D      9870      LDA #13
4256 8D4A03    9880      STA $034A
4259           9890      FRAK
4259 A907      9900      LDA #7      ;GET TEXT
425B A200      9910      LDX #0
425D 9D4203    9920      STA ICCDM, X
4260 A900      9930      LDA #0
4262 9D4803    9940      STA ICBLL, X
4265 9D4903    9950      STA ICBLH, X
4268 2056E4    9960      JSR CIOV
426B 48        9970      PHA
426C ADBB02    9980      LDA $02BB
426F D006      9990      BNE TIGGX
4271 20803C    010000     JSR KEEPER
4274 4C5942    010010     JMP FRAK
              010020     ;
4277 A90C      010030     TIGGX LDA #12
4279 8D4A03    010040     STA $034A
427C 68        010050     PLA
427D A900      010060     LDA #0
427F 8DC802    010070     STA $02C8
4282 A9F8      010080     LDA #$F8
4284 8D1FD0    010090     STA CONSOL
4287 CECB3A    010100     DEC SCPOS
428A ADCB3A    010110     LDA SCPOS
428D 8554      010120     STA $54
428F ADCC3A    010130     LDA SCPOS+1
4292 8555      010140     STA $55
4294 A9FD      010150     LDA #$FD
4296 20E35A    010160     JSR ALLPC
4299 60        010170     TIGGZ RTS
              010180     ;
              010190     ROM .= *
1060          .INCLUDE #D2:OPENS.M65
05 ;OPENS.M65
06 ;
=429A         10 ROM .= *
20 ;CLOSE IOCB INDEXED BY X
30 CIOCB LDA ##0C ;CLOSE
429A A90C      40      STA ICCMD, X
429C 9D4203    50      JSR CIOV
429F 2056E4    60      RTS
42A2 60        70 ;

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      80 ;OPEN KEYBOARD
42A3 A210      90 OKEYB LDX ##10
42A5 209A42    0100      JSR CIOCB      ;CLOSE #1
42A8 A900      0110      LDA #0
42AA 9D4803    0120      STA ICBLL,X ;LENGTH 0
42AD 9D4903    0130      STA ICBLL,X
42B0 A903      0140      LDA ##03      ;OPEN
42B2 9D4203    0150      STA ICCMD,X
42B5 A904      0160      LDA #4        ;INPUT
42B7 9D4A03    0170      STA ICAX1,X
42BA A9F9      0180      LDA # <KEYB
42BC 9D4403    0190      STA ICBAL,X
42BF A942      0200      LDA # >KEYB
42C1 9D4503    0210      STA ICBAL,X
42C4 2056E4    0220      JSR CIOV
42C7 60        0230      RTS
      0240 ;
42C8 A240      0250 ;OPEN EDITOR TO I/O
42CA 209A42    0260 OEDIT LDX ##40      ;IOCB #4
42CD A903      0270      JSR CIOCB
42CF 9D4203    0280      LDA ##03      ;OPEN
42D2 A90C      0290      STA ICCMD,X
42D4 9D4A03    0300      LDA #12       ;I/O
42D7 A9FB      0310      STA ICAX1,X
42D9 9D4403    0320      LDA # <EDIT
42DC A942      0330      STA ICBAL,X
42DE 9D4503    0340      LDA # >EDIT
42E1 2056E4    0350      STA ICBAL,X
42E4 ADB104    0360      JSR CIOV
42E7 8DC602    0370      LDA DEFCLR
42EA A900      0380      STA $02C6      ;SCREEN
42EC 8DC802    0381      LDA #0
42EF ADB204    0390      STA $02C8      ;BORDER
42F2 8DC502    0391      LDA DEFCHR
42F5 207630    0392      STA $02C5
42F8 60        0415      JSR WINOP
42F9 4B9B      0420      RTS
42FB 459B      0430 KEYB .BYTE "K",155
      =42FD      0440 EDIT .BYTE "E",155
      =42FD      0450 ROM . = *
      1070      .INCLUDE #D2:BUFFERS.M65
      10 ROM . = *
      20 ;BUFFER HANDLER FOR SMART TERMINAL
      30 ;BUFFN = # OF BUFFERS
42FD ADAE04    40 NEWBUFF LDA BUFFN
4300 C908      50      CMP #8
4302 F03C      60      BEQ TOMANY
4304 AD8904    70      LDA TOPBUF+1
4307 CD8F04    80      CMP MAXTOP+1
430A 9034      90      BCC TOMANY
430C D00A     0100     BNE BUFOK
430E AD8804    0110     LDA TOPBUF
4311 CD8E04    0120     CMP MAXTOP
4314 902A     0130     BCC TOMANY
4316 F028     0140     BEQ TOMANY
4318 A000     0150 BUFOK LDY #0
431A A920     0160     LDA ##20
431C 91CC     0170     STA (BUFPTR),Y

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431E E6CC      0180      INC BUFPTR
4320 D002      0190      BNE INCRND
4322 E6CD      0200      INC BUFPTR+1
4324 EEAE04    0210      INCRND INC BUFFN
4327 ADAE04    0220      LDA BUFFN
432A 205143    0230      JSR BINDEX
432D A5CC      0240      LDA BUFPTR
432F 998000    0250      STA BUFFER,Y
4332 8D8E04    0260      STA MAXTOP
4335 A5CD      0270      LDA BUFPTR+1
4337 998100    0280      STA BUFFER+1,Y ;NEW BOTTOM
433A 8D8F04    0290      STA MAXTOP+1
433D 4CAD4D    0300      JMP MENU
4340 20E15A    0310      TOMANY JSR BUZZR
4343 20DD5A    0320      JSR CRET
4346 A95C      0340      LDA #92      ;TO MANY BUFFERS
4348 205C5A    0350      JSR PLINE
434B 200C51    0410      JSR WAITKEY
434E 4CAD4D    0420      JMP MENU
               0430      ;BINDEX      ENTRY      A=BUFFER TO INDEX
               0440      ;              EXIT      Y= BUFF,Y  INDEX
4351 AA        0450      BINDEX TAX
4352 A000      0460      LDY #0
4354 E000      0470      BLOOP CPX #0
4356 F005      0480      BEQ INDONE
4358 CA        0490      DEX
4359 C8        0500      INY
435A C8        0510      INY
435B D0F7      0520      BNE BLOOP
435D 60        0530      INDONE RTS
               0550      ROM . = *
               1080      .INCLUDE #D2:EDITOR.M65
435E           10      *= ROM
435E 20C842    20      EDITOR JSR OEDIT
4361 AD8904    30      EDITLP LDA TOPBUF+1
4364 38        40      SEC
4365 E901      50      SBC #1
4367 CD8F04    60      CMP MAXTOP+1
436A 9063      70      BCC EFULL
436C D00A      80      BNE NOTFUL
436E AD8804    90      LDA TOPBUF
4371 CD8E04    0100     CMP MAXTOP
4374 9059      0110     BCC EFULL
4376 F057      0120     BEQ EFULL
4378 A905      0130     NOTFUL LDA #5
437A 9D4203    0140     STA ICCMD,X
437D A97F      0150     LDA #127
437F 9D4803    0160     STA ICBLL,X
4382 A900      0170     LDA #0
4384 9D4903    0180     STA ICBLL,X
4387 A5CC      0190     LDA BUFPTR
4389 9D4403    0200     STA ICBAL,X
438C A5CD      0210     LDA BUFPTR+1
438E 9D4503    0220     STA ICBAL,X
4391 2056E4    0230     JSR CIOV
4394 3020      0240     BMI EDERR
4396 A9F8      0250     LDA #$F8
4398 8D1FD0    0260     STA CONSOL

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439B A901      0270      LDA #1
439D 2D1FD0    0280      AND 'CONSOL
43A0 F014      0290      BEQ EDERR
43A2 BD4803    0300      LDA ICBLL, X
43A5 18        0310      CLC
43A6 65CC      0320      ADC BUFPTR
43A8 85CC      0330      STA BUFPTR
43AA 9002      0340      BCC NOCARRY
43AC E6CD      0350      INC BUFPTR+1
                0360 ; PRINT LINES
43AE A95B      0370 NOCARRY LDA #91
43B0 205C5A    0380      JSR PLINE
43B3 4C6143    0470      JMP EDITLP
43B6 BD4803    0480 EDERR LDA ICBLL, X
43B9 18        0490      CLC
43BA 65CC      0500      ADC BUFPTR
43BC 85CC      0510      STA BUFPTR
43BE 9002      0520      BCC NOCAR1
43C0 E6CD      0530      INC BUFPTR+1
43C2 A5CC      0540 NOCAR1 LDA BUFPTR
43C4 8D8E04    0550      STA MAXTOP
43C7 A5CD      0560      LDA BUFPTR+1
43C9 8D8F04    0570      STA MAXTOP+1
43CC 4CAD4D    0580      JMP MENU
43CF 20E15A    0581 EFULL JSR BUZZR
43D2 A95A      0590      LDA #90
43D4 205C5A    0600      JSR PLINE
43D7 200C51    0680      JSR WAITKEY
43DA 4CAD4D    0690      JMP MENU
                0720 ROM . = *
                1090 . INCLUDE #D2:DISKF.M65
                10 ;DISKF.M65
43DD          20      *= ROM
43DD          30 DSKFNC
43DD 20C842    40      JSR OEDIT
43E0 A022      50      LDY #34
43E2 98        60 RIC85 TYA
43E3 205C5A    70      JSR PLINE
43E6 C8        80      INY
43E7 C02D      90      CPY #45
43E9 D0F7      0100     BNE RIC85
43EB 207139    0110     JSR CLOSEM
43EE          0120 RIKI1
43EE 20415A    0130     JSR GETKEY
43F1 C941      0140     CMP #'A
43F3 D016      0150     BNE TFORM
43F5 A92E      0160 RDIREC LDA #46
43F7 205C5A    0170     JSR PLINE
43FA 208A44    0180     JSR GUDNUM
43FD 8DF348    0190     STA M48+1
4400 A930      0200     LDA #48
4402 205C5A    0210     JSR PLINE
4405 209950    0220     JSR DIRECT
4408 4CDD43    0230     JMP DSKFNC
440B C942      0240 TFORM CMP #'B
440D D02B      0250     BNE TEXIT ; TDOS
440F A92D      0260 RFORMAT LDA #45
4411 205C5A    0270     JSR PLINE

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4414 208A44      0280      JSR GUDNUM
4417 8DEF48      0290      STA M47P+1
441A A92F        0300      LDA #47
441C 205C5A      0310      JSR PLINE
441F 20415A      0320      JSR GETKEY
4422 C99B        0330      CMP #$9B
4424 D05F        0340      BNE RIKI3
4426 A230        0350      LDX #$30
4428 A9EE        0360      LDA # <M47P
442A 9D4403      0370      STA ICBAL,X
442D A948        0380      LDA # >M47P
442F 9D4503      0390      STA ICBAL,X
4432 A9FE        0400      LDA #$FE
4434 9D4203      0410      STA ICCOM,X
4437 4CA544      0420      JMP HIP?
443A C947        0430      TEXIT CMP #'G      ;H
443C D003        0440      BNE TRENA
443E 4CAD4D      0450      JMP MENU
4441 C943        0460      TRENA CMP #'C
4443 D00D        0470      BNE TDEL
4445 A931        0480      RENAME LDA #49
4447 205C5A      0490      JSR PLINE
444A 204356      0500      JSR FPRMT
444D A920        0510      LDA #$20
444F 4C9644      0520      JMP DISKFUN
4452 C944        0530      TDEL CMP #'D
4454 D00D        0540      BNE TLCK
4456 A932        0550      RDEL LDA #50
4458 205C5A      0560      JSR PLINE
445B 204356      0570      JSR FPRMT
445E A921        0580      LDA #$21
4460 4C9644      0590      JMP DISKFUN
4463 C945        0600      TLCK CMP #'E
4465 D00D        0610      BNE TUNLK
4467 A933        0620      RLCK LDA #51
4469 205C5A      0630      JSR PLINE
446C 204356      0640      JSR FPRMT
446F A923        0650      LDA #$23
4471 4C9644      0660      JMP DISKFUN
4474 C946        0670      TUNLK CMP #'F
4476 D00D        0680      BNE RIKI3
4478 A934        0690      RNLCK LDA #52
447A 205C5A      0700      JSR PLINE
447D 204356      0710      JSR FPRMT
4480 A924        0720      LDA #$24
4482 4C9644      0730      JMP DISKFUN
4485 C948        0740      RIKI3 CMP #'H      ;EXIT TO DOS
      =0000      0741      .IF EXITTODOS=1
      0750      BNE ZRICA
      0760      ?SUITA LDA OLDMEMLO
      0770      STA $02E7
      0780      LDA OLDMEMLO+1
      0790      STA $02E8
      0800      LDA OLDDL
      0810      STA $0230
      0820      LDA OLDDL+1
      0830      STA $0231
      0840      LDA OLDDOSVEC

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0850      STA DOSVEC
0860      LDA OLDDOSVEC+1
0870      STA DOSVEC+1
0880      LDA OLDDOSINI
0890      STA DOSINI
0900      STA GETOUT+1
0910      LDA OLDDOSINI+1
0920      STA DOSINI+1
0930      STA GETOUT+2
0940 GETOUT .BYTE $20,0,0 ;JSR DOSINI
0950      JMP (DOSVEC)
0951      .ENDIF
4487 4CDD43 0960 ZRICA JMP DSKFNC
448A 20415A 0970 GUDNUM JSR GETKEY
448D C931   0980      CMP #$31
448F 30F9   0990      BMI GUDNUM
4491 C939   1000      CMP #$39
4493 10F5   1010      BPL GUDNUM
4495 60      1020      RTS
4496 A230   1030 DISKFUN LDX #$30
4498 9D4203 1040      STA ICCOM,X
449B A996   1050      LDA # <BUFF
449D 9D4403 1060      STA ICBAL,X
44A0 A900   1070      LDA # >BUFF
44A2 9D4503 1080      STA ICBAL,X
44A5 2056E4 1090 HIP? JSR CIOV
44A8 3003   1100      BMI WHOOPZ
44AA 4CDD43 1110      JMP DSKFNC
44AD 202251 1120 WHOOPZ JSR DERROR
44B0 200C51 1130      JSR WAITKEY
44B3 4CDD43 1140      JMP DSKFNC
      =44B6 1150 ROM . = *
      1100      .INCLUDE #D2:CLOCK.M65
      10 ;
      20 ;CLOCK.M65
      30 ;
      =0006 40 VBLKI = 6
      =0007 50 VBLKD = 7
      =0224 60 CVVBLKD = $0224
      =0222 70 CVVBLKI = $0222
      80 ;
44B6      90      *= ROM
      0100 ;
44B6 00     0110 YSTAX .BYTE 0
44B7 00     0120 FRAME .BYTE 0
44B8 00     0130 SEC .BYTE 0
44B9 00     0140 HRS .BYTE 0
44BA 00     0150 MIN .BYTE 0
44BB 0000   0160 CSVBKI .WORD 0
44BD 0000   0170 CSVBK .WORD 0
      0180 ;
      =0004 0190      .LOCAL
      0200 ;
44BF      0210 KLOK
44BF EEB744 0220      INC FRAME
44C2 A200   0230      LDX #0
44C4 ADB744 0240      LDA FRAME
44C7 C93C   0250      CMP #60

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44C9 302A      0260      BMI GONE
44CB 8EB744    0270 ?CCA STX FRAME
44CE EEB844    0280      INC SEC
44D1 ADB844    0290      LDA SEC
44D4 C93C      0300      CMP #60
44D6 301D      0310      BMI GONE
44D8 8EB844    0320      STX SEC
44DB EEBA44    0330      INC MIN
44DE ADBA44    0340      LDA MIN
44E1 C93C      0350      CMP #60
44E3 3010      0360      BMI GONE
44E5 8EBA44    0370      STX MIN
44E8 EEB944    0380      INC HRS
44EB ADB944    0390      LDA HRS
44EE C918      0400 ?NDXA CMP #24
44F0 D003      0410      BNE GONE
44F2 8EB944    0420      STX HRS
44F5 202E45    0430 GONE JSR DOCLK
44F8 6CBD44    0440      JMP (CSVBK)
               0450 ;
44FB           0460 SETINT
44FB AD2402    0470      LDA CVVBLKD
44FE 8DBD44    0480      STA CSVBK
4501 AD2502    0490      LDA CVVBLKD+1
4504 8DBE44    0500      STA CSVBK+1
4507 A0BF      0510      LDY # <KLOK
4509 A244      0520      LDX # >KLOK
450B A907      0530      LDA #VBLKD
450D 205CE4    0540      JSR SETVBV
4510 60        0550      RTS
               0560 ;
4511           0570 CLOCKON
4511 A900      0580      LDA #0
4513 8DB944    0590      STA HRS
4516 8DBA44    0600      STA MIN
4519 8DB844    0610      STA SEC
451C 8DB744    0620      STA FRAME
451F 4CFB44    0630      JMP SETINT
               0640 ;
4522           0650 CLOCKOFF
4522 AEBE44    0660      LDX CSVBK+1
4525 ACBD44    0670      LDY CSVBK
4528 A907      0680      LDA #VBLKD
452A 205CE4    0690      JSR SETVBV
452D 60        0700      RTS
               0710 ;
452E           0720 DOCLK
452E A91D      0730      LDA #29
4530 8DB644    0740      STA YSTAX
4533 ADB944    0750      LDA HRS
4536 206145    0760      JSR CONVCL
4539 205545    0770      JSR DOCOLON
453C ADBA44    0780      LDA MIN
453F 206145    0790      JSR CONVCL
4542 205545    0800      JSR DOCOLON
4545 ADB844    0810      LDA SEC
4548 206145    0820      JSR CONVCL
454B 205545    0830      JSR DOCOLON

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454E ADB744      0840      LDA FRAME
4551 206145      0850      JSR CONVCL
4554 60          0860      RTS
                  0870 ;
4555            0880      DDCOLON
4555 A99A        0890      LDA #'
4557 ACB644      0900      LDY YSTAX
455A 992430      0910      STA WINDA1,Y
455D EEB644      0920      INC YSTAX
4560 60          0930      RTS
                  0940 ;
4561            0950      CONVCL
4561 A0FF        0960      LDY #$FF
4563 38          0970      SEC
4564 C8          0980      LP1 INY
4565 AA          0990      TAX
4566 E90A        1000      SBC #$0A
4568 B0FA        1010      BCS LP1
456A 98          1020      TYA
456B ACB644      1030      LDY YSTAX
456E 4990        1040      EOR #$90
4570 992430      1050      STA WINDA1,Y
4573 C8          1060      INY
4574 8A          1070      TXA
4575 4990        1080      EOR #$90
4577 992430      1090      STA WINDA1,Y
457A C8          1100      INY
457B 8CB644      1110      STY YSTAX
457E 60          1120      RTS
                  1130 ;
=457F          1140      ROM . = *
                  1110      .INCLUDE #D2:MESS.M65
                  10 ;MESS.M65
                  20 ;
                  30 ;START OF MESSAGES
457F          40      *= ROM
457F 00          50      M0 .BYTE 0
4580 A0          60      M1 .BYTE " "
4581 7D434F50    70      M2 .BYTE $7D,"COPYRIGHT (C)1986 SUPRA CORPORATION"
4585 59524947
4589 48542028
458D 43293139
4591 38362053
4595 55505241
4599 20434F52
459D 504F5241
45A1 54494FCE
45A5 534D4152    80      M3 .BYTE "SMART TERMINAL 300/1200-REV 8.2"
45A9 54205445
45AD 524D494E
45B1 414C2033
45B5 30302F31
45B9 32303020
45BD 52455620
45C1 382EB2
45C4 A0          90      M4 .BYTE " "
45C5 7F412920    0100     M5 .BYTE $7F,"A) DISK FUNCTION MENU"
45C9 4449534B

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MAW

MAW

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45CD 2046554E
45D1 4354494F
45D5 4E204D45
45D9 4ED5
45DB 7F422920 0110 M6 .BYTE $7F,"B) MODEM (-) DISK DIRECT"
45DF 4D4F4445
45E3 4D203C2D
45E7 3E204449
45EB 534B2044
45EF 49524543
45F3 D4
45F4 7F432920 0120 M7 .BYTE $7F,"C) COPY BUFFER TO DEVICE"
45F8 434F5059
45FC 20425546
4600 46455220
4604 544F2044
4608 45564943
460C C5
460D 7F442920 0130 M8 .BYTE $7F,"D) DELETE ALL BUFFERS"
4611 44454C45
4615 54452041
4619 4C4C2042
461D 55464645
4621 52D3
4623 7F452920 0140 M9 .BYTE $7F,"E) CREATE NEW BUFFER"
4627 43524541
462B 5445204E
462F 45572042
4633 55464645
4637 D2
4638 7F462920 0150 M10 .BYTE $7F,"F) FULL/HALF DUPLEX"
463C 46554C4C
4640 2F48414C
4644 46204455
4648 504C45D8
464C 7F482920 0160 M11 .BYTE $7F,"H) ASCII/ATASCII TRANSLATION"
4650 41534349
4654 492F4154
4658 41534349
465C 49205452
4660 414E534C
4664 4154494F
4668 CE
4669 7F492920 0170 M12 .BYTE $7F,"I) NO/X-MODEM PROTOCOL"
466D 4E4F2F58
4671 2D4D4F44
4675 454D2050
4679 524F544F
467D 434FCC
4680 7F4A2920 0180 M13 .BYTE $7F,"J) 38/40/64/80 COLUMNS "
4684 33382F34
4688 302F3634
468C 2F383020
4690 434F4C55
4694 4D4E53A0
4698 7F4B2920 0190 M14 .BYTE $7F,"K) REGULAR/QUICK KEYBOARD"
469C 52454755
46A0 4C41522F
```



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46A4 51554943
46A8 4B204B45
46AC 59424F41
46B0 52C4
46B2 7F4C2920 0200 M15 .BYTE $7F,"L) LOAD BUFFER FROM DEVICE"
46B6 4C4F4144
46BA 20425546
46BE 46455220
46C2 46524F4D
46C6 20444556
46CA 4943C5
46CD 7F4D2920 0210 M16 .BYTE $7F,"M) DIAL/ANSWER FUNCTIONS"
46D1 4449414C
46D5 2F414E53
46D9 57455220
46DD 46554E43
46E1 54494F4E
46E5 D3
46E6 7F502920 0220 M17 .BYTE $7F,"P) NO/ODD/EVEN PARITY"
46EA 4E4F2F4F
46EE 44442F45
46F2 56454E20
46F6 50415249
46FA 54D9
46FC 7F542920 0230 M18 .BYTE $7F,"T) TERMINAL MODE"
4700 5445524D
4704 494E414C
4708 204D4F44
470C C5
470D 7F562920 0240 M19 .BYTE $7F,"V) 300/1200 BAUD"
4711 3330302F
4715 31323030
4719 20424155
471D C4
471E 434F4E54 0250 M20 .BYTE "CONTROL-C=COLOR CONTROL-T=TIMER"
4722 524F4C2D
4726 433D434F
472A 4C4F5220
472E 20434F4E
4732 54524F4C
4736 2D543D54
473A 494D45D2
473E A0 0260 M21 .BYTE " "
473F 7F412920 0270 M22 .BYTE $7F,"A) AUTOANSWER OFF/ON"
4743 4155544F
4747 414E5357
474B 4552204F
474F 46462F4F
4753 CE
4754 7F422920 0280 M23 .BYTE $7F,"B) AUTO-REDIAL OFF/ON"
4758 4155544F
475C 2D524544
4760 49414C20
4764 4F46462F
4768 4FCE
476A 7F432920 0290 M24 .BYTE $7F,"C) AUTODIAL NUMBER"
476E 4155544F
4772 4449414C
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12400 MAW

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4776 204E554D
477A 4245D2
477D 7F442920 0300 M25 .BYTE $7F,"D) CHANGE NUMBER"
4781 4348414E
4785 4745204E
4789 554D4245
478D D2
478E 7F452920 0310 M26 .BYTE $7F,"E) LOAD NUMBERS/NEW PAGE"
4792 4C4F4144
4796 204E554D
479A 42455253
479E 2F4E4557
47A2 20504147
47A6 C5
47A7 7F462920 0320 M27 .BYTE $7F,"F) SAVE NUMBERS/THIS PAGE"
47AB 53415645
47AF 204E554D
47B3 42455253
47B7 2F544849
47BB 53205041
47BF 47C5
47C1 7F472920 0330 M28 .BYTE $7F,"G) EXIT TO MAIN MENU"
47C5 45584954
47C9 20544F20
47CD 4D41494E
47D1 204D454E
47D5 D5
47D6 A0
47D7 43484F49 0340 M29 .BYTE " "
47DB 4345BF 0350 M30 .BYTE "CHOICE?"
47DE 4E554D42 0360 M31 .BYTE "NUMBER?"
47E2 4552BF
47E5 4E455720 0370 M32 .BYTE "NEW NUMBER?"
47E9 4E554D42
47ED 4552BF
47F0 2A2A2042 0380 M33 .BYTE "*** BAUD MISMATCH-RESET BAUD ***"
47F4 41554420
47F8 4D49534D
47FC 41544348
4800 2D524553
4804 45542042
4808 41554420
480C 2AAA
480E 4449534B 0390 M34 .BYTE "DISK FUNCTIONS MENU (DRIVES 1-8)"
4812 2046554E
4816 4354494F
481A 4E53204D
481E 454E5520
4822 28445249
4826 56455320
482A 312D38A9
482E A0
482F 7F412920 0400 M35 .BYTE " "
4833 4449534B 0410 M36 .BYTE $7F,"A) DISK DIRECTORY"
4837 20444952
483B 4543544F
483F 52D9
4841 7F422920 0420 M37 .BYTE $7F,"B) FORMAT DISK"
```

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4845 464F524D
4849 41542044
484D 4953CB
4850 7F432920 0430 M38 .BYTE $7F,"C) RENAME FILE"
4854 52454E41
4858 4D452046
485C 494CC5
485F 7F442920 0440 M39 .BYTE $7F,"D) DELETE FILE"
4863 44454C45
4867 54452046
486B 494CC5
486E 7F452920 0450 M40 .BYTE $7F,"E) LOCK FILE"
4872 4C4F434B
4876 2046494C
487A C5
487B 7F462920 0460 M41 .BYTE $7F,"F) UNLOCK FILE"
487F 554E4C4F
4883 434B2046
4887 494CC5
488A 7F472920 0470 M42 .BYTE $7F,"G) EXIT TO MAIN MENU"
488E 45584954
4892 20544F20
4896 4D41494E
489A 204D454E
489E D5
      =0000 0480 .IF EXITTODOS=1
0490 M43 .BYTE $7F,"H) EXIT TO DOS"
0500 .ELSE
0510 M43 .BYTE " "
0520 .ENDIF
489F A0 0530 M44 .BYTE "CHOICE?"
0540 M45 .BYTE "[FORMAT] DRIVE(1-8)?"
48A0 43484F49
48A4 4345BF
48A7 5B464F52
48AB 4D41545D
48AF 20445249
48B3 56452831
48B7 2D3829BF
48BB 5B444952 0550 M46 .BYTE "[DIRECTORY] OF DRIVE(1-8)?"
48BF 4543544F
48C3 52595D20
48C7 4F462044
48CB 52495645
48CF 28312D38
48D3 29BF
48D5 50524553 0560 M47 .BYTE "PRESS <RETURN> TO FORMAT "
48D9 53203C52
48DD 45545552
48E1 4E3E2054
48E5 4F20464F
48E9 524D4154
48ED 20
48EE 44313AA0 0570 M47P .BYTE "D1: "
48F2 44313A2A 0580 M48 .BYTE "D1:*. * "
48F6 2E2AA0
48F9 5B52454E 0590 M49 .BYTE "[RENAME]"
48FD 414D45DD
4901 5B44454C 0600 M50 .BYTE "[DELETE]"
4905 455445DD

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```
4909 5B4C4F43 0610 M51 .BYTE "[LOCK]"
490D 4BDD
490F 5B554E4C 0620 M52 .BYTE "[UNLOCK]"
4913 4F434BDD
4917 44454C45 0630 M53 .BYTE "DELETE BUFFERS (Y/N)?"
491B 54452042
491F 55464645
4923 52532028
4927 592F4E29
492B BF
492C 20425546 0640 M54 .BYTE " BUFFERS USED"
4930 46455253
4934 20555345
4938 C4
4939 42554646 0650 M55 .BYTE "BUFFER NOT CREATED"
493D 4552204E
4941 4F542043
4945 52454154
4949 45C4
494B 42554646 0660 M56 .BYTE "BUFFER # TO COPY?"
494F 45522023
4953 20544F20
4957 434F5059
495B BF
495C 2A2A4D4F 0670 M57 .BYTE "***MODEM NAK**"
4960 44454D20
4964 4E414B2A
4968 AA
4969 43484F49 0680 M58 .BYTE "CHOICE?"
496D 4345BF
4970 50524553 0690 M59 .BYTE "PRESS <RETURN> TO CONTINUE"
4974 53203C52
4978 45545552
497C 4E3E2054
4980 4F20434F
4984 4E54494E
4988 55C5
498A 42554646 0700 M60 .BYTE "BUFFER COPY READY"
498E 45522043
4992 4F505920
4996 52454144
499A D9
499B 55534520 0710 M61 .BYTE "USE <OPTION> TO START/STOP SAVE"
499F 3C4F5054
49A3 494F4E3E
49A7 20544F20
49AB 53544152
49AF 542F5354
49B3 4F502053
49B7 4156C5
49BA 4C4F4144 0720 M62 .BYTE "LOAD BUFFER FROM A DEVICE."
49BE 20425546
49C2 46455220
49C6 46524F4D
49CA 20412044
49CE 45564943
49D2 45AE
49D4 2A2A4255 0730 M63 .BYTE "***BUFFER FULL**"
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49D8 46464552
49DC 2046554C
49E0 4C2AAA
49E3 2A2A5445 0740 M64 .BYTE "***TERMINAL MODE**"
49E7 524D494E
49EB 414C204D
49EF 4F44452A
49F3 AA
49F4 7D434F50 0750 M65 .BYTE $7D,"COPY BUFFER TO A DEVICE."
49F8 59204255
49FC 46464552
4A00 20544F20
4A04 41204445
4A08 56494345
4A0C AE
4A0D 4C454741 0760 M66 .BYTE "LEGAL DEVICES ARE:"
4A11 4C204445
4A15 56494345
4A19 53204152
4A1D 45BA
4A1F A0 0770 M67 .BYTE " "
4A20 7F46494C 0780 M68 .BYTE $7F,"FILENAME  DEVICE"
4A24 454E414D
4A28 45202020
4A2C 44455649
4A30 43C5
4A32 A0 0790 M69 .BYTE " "
4A33 7F433A28 0800 M70 .BYTE $7F,"C:(SHORT)  - CASSETTE"
4A37 53484F52
4A3B 54292020
4A3F 2D204341
4A43 53534554
4A47 54C5
4A49 7F443A66 0810 M71 .BYTE $7F,"D:filename  - DISK"
4A4D 696C656E
4A51 616D6520
4A55 2D204449
4A59 53CB
4A5B 7F4D3A20 0820 M72 .BYTE $7F,"M:  - MODEM"
4A5F 20202020
4A63 20202020
4A67 2D204D4F
4A6B 4445CD
4A6E 7F533A20 0830 M73 .BYTE $7F,"S:  - SCREEN"
4A72 20202020
4A76 20202020
4A7A 2D205343
4A7E 524545CE
4A82 7F503A20 0840 M74 .BYTE $7F,"P:  - PRINTER"
4A86 20202020
4A8A 20202020
4A8E 2D205052
4A92 494E5445
4A96 D2
4A97 7F453A20 0850 M75 .BYTE $7F,"E:  - SCREEN EDITOR"
4A9B 20202020
4A9F 20202020
4AA3 2D205343

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4AA7 5245454E
4AAB 20454449
4AAF 544FD2
4AB2 54484953 0860 M76 .BYTE "THIS COPIES TO AND FROM THE DISK"
4AB6 20434F50
4ABA 49455320
4ABE 544F2041
4AC2 4E442046
4AC6 524F4D20
4ACA 54484520
4ACE 4449530B
4AD2 44495245 0870 M77 .BYTE "DIRECTLY WITHOUT BUFFERING DATA."
4AD6 43544C59
4ADA 20574954
4ADE 484F5554
4AE2 20425546
4AE6 46455249
4AEA 4E472044
4AEE 415441AE
4AF2 28584D4F 0880 M78 .BYTE "(XMODEM ONLY!)"
4AF6 44454D20
4AFA 4F4E4C59
4AFE 21A9
4B00 A0 0890 M79 .BYTE " "
4B01 7F312920 0900 M80 .BYTE $7F,"1) MODEM -> DISK DIRECT"
4B05 4D4F4445
4B09 4D202D3E
4B0D 20444953
4B11 4B204449
4B15 524543D4
4B19 7F322920 0910 M81 .BYTE $7F,"2) DISK -> MODEM DIRECT"
4B1D 4449534B
4B21 202D3E20
4B25 4D4F4445
4B29 4D204449
4B2D 524543D4
4B31 A0 0920 M82 .BYTE " "
4B32 43484F49 0930 M83 .BYTE "CHOICE?"
4B36 4345BF
4B39 53544152 0940 M84 .BYTE "STARTING XMODEM DOWNLOAD"
4B3D 54494E47
4B41 20584D4F
4B45 44454D20
4B49 444F574E
4B4D 4C4F41C4
4B51 454E4420 0950 M85 .BYTE "END OF XMODEM TRANSFER"
4B55 4F462058
4B59 4D4F4445
4B5D 4D205452
4B61 414E5346
4B65 45D2
4B67 46415441 0960 M86 .BYTE "FATAL ERROR-XMODEM TRANSFER ABORTED"
4B6B 4C204552
4B6F 524F522D
4B73 584D4F44
4B77 454D2054
4B7B 52414E53
4B7F 46455220
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4B83 41424F52
4B87 5445C4
4B8A 53544152 0970 M87 .BYTE "STARTING XMODEM UPLOAD"
4B8E 54494E47
4B92 20584D4F
4B96 44454D20
4B9A 55504C4F
4B9E 41C4
4BA0 53415645 0980 M88 .BYTE "SAVE ON"
4BA4 204FCE
4BA7 53415645 0990 M89 .BYTE "SAVE OFF"
4BAB 204F46C6
4BAF 2A2A2045 1000 M90 .BYTE "*** EDITOR FULL ***"
4BB3 4449544F
4BB7 52204655
4BBB 4C4C202A
4BBF AA
4BC0 3D3D3D3D 1010 M91 .BYTE "===== "
4BC4 3D3D3D3D
4BC8 3D3D3D3D
4BCC 3D3D3D3D
4BD0 3D3D3D3D
4BD4 3D3D3D3D
4BD8 3D3D3D3D
4BDC 3D3D3D3D
4BE0 3D3DBD
4BE3 2A2A204F 1020 M92 .BYTE "*** OUT OF BUFFERS ***"
4BE7 5554204F
4BEB 46204255
4BEF 46464552
4BF3 53202AAA
4BF7 20A0
4BF9 9B49443A 1030 M93 .BYTE " "
4BFD 46494C45 1040 MFILEN .BYTE 155,"ID:FILENAME? "
4C01 4E414D45
4C05 3F20
4C07 7D20 1050 MBAUD .BYTE $7D," "
4C09 9B20 1060 MBAUD1 .BYTE 155," "
4C0B 20425954 1070 BMES1 .BYTE " BYTES USED "
4C0F 45532055
4C13 53454420
4C17 20
4C18 20425954 1080 BMES2 .BYTE " BYTES LEFT",155
4C1C 4553204C
4C20 4546549B
4C24 FD9B2A2A 1090 MERROR .BYTE $FD,155,"*** ERROR - "
4C28 2A204552
4C2C 524F5220
4C30 2D20
4C32 433A9B 1100 MCASS .BYTE "C:",155
4C35 443A5048 1110 MDISK .BYTE "D:PHONE1.DAT",155
4C39 4F4E4531
4C3D 2E444154
4C41 9B
4C42 443A4452 1120 MX64 .BYTE "D:DRIVER.64", $9B
4C46 49564552
4C4A 2E36349B
4C4E 443A4452 1130 MX80 .BYTE "D:DRIVER.80", $9B

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4C52 49564552
4C56 2E38309B
4C5A 20465245      1140 BMES3 .BYTE " FREE BLOCKS      "
4C5E 4520424C
4C62 4F434853
4C66 202020
4C69 41012800      1150 DANUM .BYTE $41,$01,$28,$00,$00,$00
4C6D 0000
4C6F 9B9B3E3E      1160 XMES3 .BYTE 155,155,">>TRANSFERING BLOCK# "
4C73 5452414E
4C77 53464552
4C7B 494E4720
4C7F 424C4F43
4C83 4B2320
      =4C86      1170 ROM . = *
      =0000      1120      .IF RAM>$057E
                  1130      .ERROR "RAM TO BIG"
                  1140      .ENDIF
4C86      1150      *= ROM
                  1160 ;
                  1170 ;DOES THIS ONCE ON LOAD
                  1180 ;
4C86      1190 START
4C86 200435      1200      JSR RINIT.ST ;INSTALL R:
4C89 20C842      1210      JSR OEDIT
4C8C A901      1220      LDA #1
4C8E 8509      1230      STA $09      ;DISK BOOTED OK
4C90 A900      1240      LDA #0
4C92 8D4402      1250      STA $0244 ;CLEAR COLDSTART
4C95 ADE502      1260      LDA MEMTOP
4C98 8D8304      1270      STA OLDMEMTOP
4C9B ADE602      1280      LDA MEMTOP+1
4C9E 8D8404      1290      STA OLDMEMTOP+1
4CA1 A920      1300      LDA #$20
4CA3 8DA004      1310      STA INIT
4CA6 A50C      1320      LDA DOSINI
4CA8 8DA104      1330      STA INIT+1
4CAB A50D      1340      LDA DOSINI+1
4CAD 8DA204      1350      STA INIT+2
4CB0 A920      1360      LDA #$20
4CB2 8DA304      1370      STA INIT+3
4CB5 A9D8      1380      LDA # <STERM
4CB7 8DA404      1390      STA INIT+4
4CBA A94C      1400      LDA # >STERM
4CBC 8DA504      1410      STA INIT+5
4CBF A960      1420      LDA #$60
4CC1 8DA604      1430      STA INIT+6
4CC4 A200      1440      LDX #0
4CC6 8E4402      1450      STX $0244
4CC9 E8      1460      INX
4CCA 8609      1470      STX $09
4CCC ADE502      1480      LDA MEMTOP
4CCF 8DB304      1490      STA OMTOP
4CD2 ADE602      1500      LDA MEMTOP+1
4CD5 8DB404      1510      STA OMTOP+1
                  1520 ;
                  1530 ;HERE ON RESET
                  1540 ;

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4CD8	1550	STERM	
4CD8 A9A0	1560	LDA # <INIT	
4CDA 850C	1570	STA DOSINI	
4CDC A904	1580	LDA # >INIT	
4CDE 850D	1590	STA DOSINI+1	
4CE0 A9D8	1600	LDA # <STERM	
4CE2 850A	1610	STA DOSVEC	
4CE4 A94C	1620	LDA # >STERM	
4CE6 850B	1630	STA DOSVEC+1	
4CE8 A9F8	1640	LDA # <ENDPR	
4CEA 8DE702	1650	STA \$02E7	
4CED A95A	1660	LDA # >ENDPR	
4CEF 8DE802	1670	STA \$02E8	
4CF2 A90A	1680	LDA #\$0A	
4CF4 8DB204	1690	STA DEFCHR	
4CF7 8DC502	1700	STA \$02C5	
4CFA A931	1710	LDA #\$31	
4CFC 8D3C4C	1720	STA MDISK+7	
4CFF A90A	1730	LDA #10	
4D01 8DB604	1740	STA KEYF2	
4D04 A902	1750	LDA #2	
4D06 8552	1760	STA \$52	
4D08 A920	1770	LDA #32	; ALWAYS NO TRAN
4D0A 8D2F38	1780	STA TRAN	
4D0D A900	1790	LDA #0	
4D0F 8D8704	1800	STA BDFLG	
4D12 8DB504	1810	STA KEYF	
4D15 8DB004	1820	STA QDIAL	
4D18 8DB104	1830	STA DEFCLR	
4D1B 8DA638	1840	STA PARFLG	
4D1E 8D9004	1850	STA TRANF	
4D21 8D9204	1860	STA BIT8F	
4D24 8D9104	1870	STA BINF	
4D27 8D9304	1880	STA DUPLF	
4D2A 8D9C04	1890	STA FULLF	
4D2D 8DAE04	1900	STA BUFFN	
4D30 8D9704	1910	STA COLFLG	
4D33 8D9E04	1920	STA ANSFLG	
4D36 8DAF04	1930	STA DIALF	
4D39 8DE102	1940	STA \$02E1	
4D3C 85CA	1950	STA INPBUF	
4D3E A906	1960	LDA #6	
4D40 85CB	1970	STA INPBUF+1	
4D42 200139	1980	JSR MODINIT	
4D45 ADE702	1990	LDA \$02E7	
4D48 8D8A04	2000	STA BOTBUF	
4D4B 85CC	2010	STA BUFPTR	
4D4D 8580	2020	STA BUFFER	
4D4F 8D8E04	2030	STA MAXTOP	
4D52 ADE802	2040	LDA \$02E8	
4D55 8D8B04	2050	STA BOTBUF+1	
4D58 85CD	2060	STA BUFPTR+1	
4D5A 8581	2070	STA BUFFER+1	
4D5C 8D8F04	2080	STA MAXTOP+1	
4D5F ADE502	2090	RESTRT LDA MEMTOP	
4D62 8D8804	2100	STA TOPBUF	
4D65 8D8C04	2110	STA BUFMAX	
4D68 8DAC04	2120	STA DIALADD	

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4D6B 85C8      2130      STA DIALBF
4D6D ADE602    2140      LDA MEMTOP+1
4D70 38        2150      SEC
4D71 E902      2160      SBC #2
4D73 8D8904    2170      STA TOPBUF+1
4D76 8DAD04    2180      STA DIALADD+1
4D79 85C9      2190      STA DIALBF+1
4D7B E904      2200      SBC #4
4D7D 8D8D04    2210      STA BUFMAX+1
4D80 20B730    2220      JSR STERA
4D83 AD9704    2230      LDA COLFLG
4D86 1006      2240      BPL NO80COL
4D88 20A559    2250      JSR LDNUM
4D8B 4CAD4D    2260      JMP MENU
                2270 ;
4D8E          2280 NO80COL
4D8E 20DF38    2290      JSR ONHOOK
4D91 209D4D    2300      JSR CLEER
4D94 E6C9      2310      INC DIALBF+1
4D96 209D4D    2320      JSR CLEER
4D99 C6C9      2330      DEC DIALBF+1
4D9B D00A      2340      BNE HARR
4D9D A000      2350      CLEER LDY #0
4D9F A99B      2360      CRLOOP LDA #155
4DA1 91C8      2370      STA (DIALBF),Y
4DA3 C8        2380      INY
4DA4 D0F9      2390      BNE CRLOOP
4DA6 60        2400      RTS
                2410 ;
4DA7 20A559    2420      HARR JSR LDNUM
4DAA 209D39    2430      CASBT JSR OPEN
                2440 ;
                2450 ;PRINT MENU
                2460 ;
4DAD          2470 MENU
4DAD A920      2480      LDA #32
4DAF 8D2F38    2490      STA TRAN
4DB2 209D39    2500      JSR OPEN
4DB5 207139    2510      JSR CLOSE
4DB8 78        2520      SEI
4DB9 A510      2530      LDA #10
4DBB 0980      2540      ORA #$80
4DBD 8510      2550      STA #10
4DBF 8D0ED2    2560      STA IRQEN
4DC2 58        2570      CLI
4DC3 A260      2580      LDX #MOD
4DC5 A90C      2590      LDA #$0C
4DC7 9D4203    2600      STA ICCOM,X
4DCA 2056E4    2610      JSR CIOV
4DCD A97F      2620      LDA #$7F
4DCF 8D9F04    2630      STA INVST
4DD2 A940      2640      LDA #$40
4DD4 8DBE02    2650      STA $02BE
4DD7 A900      2660      LDA #0
4DD9 8DB602    2670      STA $02B6
4DDC 8D9A04    2680      STA LOADF
4DDF 8D9B04    2690      STA SAVEF
4DE2 8D9504    2700      STA SAVMOD

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4DE5	8D9804	2710	STA DISKF
4DE8	8D9404	2720	STA CASFLG
4DEB	8D9D04	2730	STA DPRFLG
4DEE	8DC93A	2740	STA PHONE
4DF1	8DCA3A	2750	STA OPFLG
4DF4	AD8E04	2760	LDA MAXTOP
4DF7	85CC	2770	STA BUFPTR
4DF9	AD8F04	2780	LDA MAXTOP+1
4DFC	85CD	2790	STA BUFPTR+1
4DFE	ADAF04	2800	LDA DIALF
4E01	D005	2810	BNE CARND
4E03	A900	2820	LDA #0
4E05	8DC93A	2830	STA PHONE
4E08	20C842	2840	CARND JSR OEDIT
4E0B	A002	2850	LDY #2
4E0D	98	2860	ZEPP0 TYA
4E0E	205C5A	2870	JSR PLINE
4E11	C8	2880	INY
4E12	C00A	2890	CPY #10
4E14	D0F7	2900	BNE ZEPP0
4E16	AD9304	2910	LDA DUPLF
4E19	D007	2920	BNE F1
4E1B	A905	2930	LDA #5
4E1D	8D9F04	2940	STA INVST
4E20	D005	2950	BNE G0
4E22	A90A	2960	F1 LDA #10
4E24	8D9F04	2970	STA INVST
4E27	A90A	2980	G0 LDA #10
4E29	205C5A	2990	JSR PLINE
4E2C	AD9004	3000	H0 LDA TRANF
4E2F	D007	3010	BNE H1
4E31	A905	3020	LDA #5
4E33	8D9F04	3030	STA INVST
4E36	D005	3040	BNE I0
4E38	A90B	3050	H1 LDA #11
4E3A	8D9F04	3060	STA INVST
4E3D	A90B	3070	I0 LDA #11
4E3F	205C5A	3080	JSR PLINE
4E42	AD9104	3090	LDA BINF
4E45	D007	3100	BNE I1
4E47	A905	3110	LDA #5
4E49	8D9F04	3120	STA INVST
4E4C	D005	3130	BNE J0
4E4E	A908	3140	I1 LDA #8
4E50	8D9F04	3150	STA INVST
4E53	A90C	3160	J0 LDA #12
4E55	205C5A	3170	JSR PLINE
4E58	AD9704	3180	LDA COLFLG
4E5B	3010	3190	BMI J2
4E5D	D007	3200	BNE J1
4E5F	A905	3210	LDA #5
4E61	8D9F04	3220	STA INVST
4E64	D017	3230	BNE K0
4E66	A908	3240	J1 LDA #8
4E68	8D9F04	3250	STA INVST
4E6B	D010	3260	BNE K0
4E6D	C980	3270	J2 CMP ##80
4E6F	D007	3280	BNE J3

4E71 A90B	3290	LDA #11	
4E73 8D9F04	3300	STA INVST	
4E76 D005	3310	BNE K0	
4E78 A90E	3320 J3	LDA #14	
4E7A 8D9F04	3330	STA INVST	
4E7D A90D	3340 K0	LDA #13	
4E7F 205C5A	3350	JSR PLINE	
4E82 ADB504	3360	LDA KEYF	
4E85 F007	3370	BEQ ?KAB1	
4E87 A90D	3380	LDA #13	
4E89 8D9F04	3390	STA INVST	
4E8C D005	3400	BNE ?KAB2	
4E8E A905	3410	?KAB1 LDA #5	
4E90 8D9F04	3420	STA INVST	
4E93 A90E	3430	?KAB2 LDA #14	
4E95 205C5A	3440	JSR PLINE	
4E98 A90F	3450	LDA #15	
4E9A 205C5A	3460	JSR PLINE	
4E9D A910	3470	LDA #16	
4E9F 205C5A	3480	JSR PLINE	
4EA2 ADA638	3490	LDA PARFLG	
4EA5 3010	3500	BMI K2	
4EA7 F007	3510	BEQ K1	
4EA9 A908	3520	LDA #8	
4EAB 8D9F04	3530	STA INVST	
4EAE D00C	3540	BNE T0	
4EB0 A905	3550 K1	LDA #5	
4EB2 8D9F04	3560	STA INVST	
4EB5 D005	3570	BNE T0	
4EB7 A90C	3580 K2	LDA #12	
4EB9 8D9F04	3590	STA INVST	
4EBC A911	3600 T0	LDA #17	
4EBE 205C5A	3610	JSR PLINE	
4EC1 A912	3620	LDA #18	
4EC3 205C5A	3630	JSR PLINE	
4EC6 AD8704	3640	LDA BDFLG	
4EC9 F007	3650	BEQ ?X300	→ cmp #101
4ECB A909	3660	LDA #9	→ Bne ?X300.1
4ECD 8D9F04	3670	STA INVST	
4ED0 D005	3680	BNE ?FFFA	
4ED2 A905	3690	?X300 LDA #5	→ ? X300.1
4ED4 8D9F04	3700	STA INVST	→ 0
4ED7 A913	3710	?FFFA LDA #19	→ lda #14
4ED9 205C5A	3720	JSR PLINE	→ Bne ?FFFA
4EDC 205F51	3730	JSR BUFSZ	→ Sta INVST
4EDF 209855	3740	JSR BUFUSED	
4EE2 A914	3750	LDA #20	
4EE4 205C5A	3760	JSR PLINE	
4EE7 20F430	3770	JSR STLINE	
	3780	;	
	3790	;GET CHOICE FROM KEYBOARD	
	3800	;	
4EEA 20415A	3810	GCHCE JSR GETKEY	
4EED 1003	3820	BPL GCHOK	
4EEF 4CAD4D	3830	MENU1 JMP MENU	
	3840	;	
	3850	;	
	3860	;EXECUTE CHOICE	

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4EF2      3870 ;
4EF2 C914  3880 GCHK
4EF4 D016  3890      CMP ##14      ; <CTRL> T
4EF6 AD8504 3900      BNE CCTL
4EF9 4901  3910      LDA CLOK
4EFB 8D8504 3920      EOR #1
4EFE F006  3930      STA CLOK
4F00 201145 3940      BEQ COF
4F03 4CEA4E 3950      JSR CLOCKON
          3960      JMP GCHCE
          3970 ;
4F06 202245 3980 COF JSR CLOCKOFF
4F09 4CEA4E 3990      JMP GCHCE
          4000 ;
4F0C C903  4010 CCTL CMP ##03      ; <CTRL> C
4F0E D025  4020      BNE CA
4F10 18     4030 FRANG CLC
4F11 A90A  4040      LDA ##0A
4F13 8DB204 4050      STA DEFCHR
4F16 8DC502 4060      STA $02C5
4F19 ADB104 4070      LDA DEFCLR
4F1C 6902  4080      ADC ##02
4F1E 8DB104 4090      STA DEFCLR
4F21 8DC602 4100      STA $02C6
4F24 290F  4110      AND ##0F
4F26 C908  4120      CMP ##08
4F28 3008  4130      BMI CXF
4F2A A900  4140      LDA ##00
4F2C 8DB204 4150      STA DEFCHR
4F2F 8DC502 4160      STA $02C5
4F32 4CEA4E 4170 CXF  JMP GCHCE
          4180 ;
4F35 C941  4190 CA   CMP #'A
4F37 D003  4200      BNE CB
4F39 4CDD43 4210      JMP DSKFNC
          4220 ;
4F3C C942  4230 CB   CMP #'B
4F3E D003  4240      BNE CC
4F40 4CAC55 4250      JMP DIRDISK
          4260 ;
4F43 C943  4270 CC   CMP #'C
4F45 D003  4280      BNE CD
4F47 4C7852 4290      JMP COPYBF
          4300 ;
4F4A C944  4310 CD   CMP #'D
4F4C D003  4320      BNE CE
4F4E 4C2D52 4330      JMP DELBF
          4340 ;
4F51 C945  4350 CE   CMP #'E
4F53 D003  4360      BNE CF
4F55 4CFD42 4370      JMP NEWBUFF
          4380 ;
4F58 C946  4390 CF   CMP #'F
4F5A D00B  4400      BNE CH1
4F5C A901  4410      LDA #1
4F5E 4D9304 4420      EOR DUPLF
4F61 8D9304 4430      STA DUPLF
4F64 4CAD4D 4440      JMP MENU

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4F67 C948      4450 ;
4F69 D011      4460 CH1 CMP #'H
4F6B A901      4470      BNE CI
4F6D 4D9004    4480      LDA #1
4F70 8D9004    4490      EOR TRANF
4F73 8D9204    4500      STA TRANF
4F76 4CAD4D    4510      STA BIT8F
                     4520      JMP MENU
                     4530 ;
4F79 4CAD4D    4540 JMEN JMP MENU
                     4550 ;
4F7C C949      4560 CI  CMP #'I
4F7E D00B      4570      BNE CJ
4F80 A901      4580      LDA #1
4F82 4D9104    4590      EOR BINF
4F85 8D9104    4600      STA BINF
4F88 4CAD4D    4610      JMP MENU
                     4620 ;
4F8B C94A      4630 CJ  CMP #'J
4F8D D07B      4640      BNE CK
4F8F AD9704    4650      LDA COLFLG
4F92 C980      4660      CMP ##80
4F94 F057      4670      BEQ Z80COL
4F96 C9FF      4680      CMP ##FF
4F98 F011      4690      BEQ Z38COL
4F9A AD9704    4700      LDA COLFLG
4F9D D034      4710      BNE Z64COL
4F9F 4901      4720      EOR #1
4FA1 8D9704    4730      STA COLFLG
4FA4 A900      4740      LDA #0
4FA6 8552      4750      STA $52
4FA8 4CAD4D    4760      JMP MENU
                     4770 ;
4FAB A902      4780 Z38COL LDA #2
4FAD 8552      4790      STA $52
4FAF A900      4800      LDA #0
4FB1 8D9704    4810      STA COLFLG
4FB4 A900      4820      LDA ##00
4FB6 8D2103    4830      STA $0321
4FB9 A9E4      4840      LDA #$E4
4FBB 8D2203    4850      STA $0322
4FBE AD8304    4860      LDA OLDMEMTOP
4FC1 8DE502    4870      STA MEMTOP
4FC4 AD8404    4880      LDA OLDMEMTOP+1
4FC7 8DE602    4890      STA MEMTOP+1
4FCA 20C842    4900      JSR OEDIT
4FCD 4C5F4D    4910      JMP RESTRT
                     4920 ;
4FD0 4CAD4D    4930 BMENU JMP MENU
                     4940 ;
4FD3 207139    4950 Z64COL JSR CLOSEM
4FD6 A942      4960      LDA # <MX64
4FDB 8DB704    4970      STA RFNAME
4FDB A94C      4980      LDA # >MX64
4FDD 8DB804    4990      STA RFNAME+1
4FE0 20A337    5000      JSR GETHDR
4FE3 3022      5010      BMI NOOPN1
4FE5 A980      5020      LDA ##80

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4FE7 8D9704      5030      STA COLFLG
4FEA 4C5F4D      5040      JMP RESTRT
                    5050 ;
4FED 207139      5060 Z80COL JSR CLOSEM
4FF0 A94E        5070      LDA # <MX80
4FF2 8DB704      5080      STA RFNAME
4FF5 A94C        5090      LDA # >MX80
4FF7 8DB804      5100      STA RFNAME+1
4FFA 20A337      5110      JSR GETHDR
4FFD 3008        5120      BMI NOOPN1
4FFF A9FF        5130      LDA #$FF
5001 8D9704      5140      STA COLFLG
5004 4C5F4D      5150      JMP RESTRT
                    5160 ;
5007 4CAB4F      5170 NOOPN1 JMP Z38COL
                    5180 ;
500A C94B        5190 CK   CMP #'K
500C D023        5200      BNE CL
500E ADB504      5210      LDA KEYF
5011 4901        5220      EOR #1
5013 8DB504      5230      STA KEYF
5016 D00C        5240      BNE ?SK
5018 A930        5250      LDA #$30
501A 8DD902      5260      STA $02D9
501D A906        5270      LDA #$06
501F 8DDA02      5280      STA $02DA
5022 D00A        5290      BNE ?AK
5024 A915        5300 ?SK  LDA #$15
5026 8DD902      5310      STA $02D9
5029 A902        5320      LDA #$02
502B 8DDA02      5330      STA $02DA
502E 4CAD4D      5340 ?AK  JMP MENU
                    5350 ;
5031 C94C        5360 CL   CMP #'L
5033 D003        5370      BNE CM
5035 4CCB53      5380      JMP LOADBF
                    5390 ;
5038 C94D        5400 CM   CMP #'M
503A D003        5410      BNE CP
503C 4C9C57      5420      JMP DIAL
                    5430 ;
503F C950        5440 CP   CMP #'P
5041 D02C        5450      BNE CT
5043 A900        5460      LDA #0
5045 8D9004      5470      STA TRANF
5048 8D9204      5480      STA BIT8F
504B ADA638      5490      LDA PARFLG
504E 3014        5500      BMI CP0
5050 F009        5510      BEQ CP1
5052 A902        5520      LDA #2      ; TO EVEN
5054 8D3038      5530      STA PAR
5057 A980        5540      LDA #$80
5059 D00E        5550      BNE CPSTR
505B A901        5560 CP1  LDA #1      ; TO ODD
505D 8D3038      5570      STA PAR
5060 A901        5580      LDA #1
5062 D005        5590      BNE CPSTR
5064 A900        5600 CP0  LDA #0      ; TO NO

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5066	8D3038	5610	STA PAR
5069	8DA638	5620	CPSTR STA PARFLG
506C	4CAD4D	5630	JMP MENU
		5640	;
506F	C954	5650	CT CMP #'T
5071	F020	5660	BEQ TERM1
5073	C956	5670	CMP #'V
5075	D019	5680	BNE VROOM
5077	AD8704	5690	LDA BDFLG
507A	4901	5700	EOR #1
507C	8D8704	5710	STA BDFLG
507F	F007	5720	BEQ ?H300
5081	A90A	5730	LDA #10
5083	8D2B38	5740	STA RBAUD
5086	D005	5750	BNE ?H4A
5088	A908	5760	?H300 LDA #8
508A	8D2B38	5770	STA RBAUD
508D	4CAD4D	5780	?H4A JMP MENU
		5790	;
5090	4CEA4E	5800	VROOM JMP GCHCE
		5810	;
5093	20F430	5820	TERM1 JSR STLINE
5096	4CE654	5830	JMP TERM2
		5840	;
5099	207139	5850	DIRECT JSR CLOSE
509C	A230	5860	LDX ##30
509E	209A42	5870	JSR CIOCB
50A1	A903	5880	LDA #COPEN
50A3	9D4203	5890	STA ICCMD, X
50A6	A906	5900	LDA #6
50A8	9D4A03	5910	STA ICAX1, X
50AB	A900	5920	LDA #0
50AD	9D4803	5930	STA ICAX2, X
50B0	A9F2	5940	LDA # <M48
50B2	9D4403	5950	STA ICBAL, X
50B5	A948	5960	LDA # >M48
50B7	9D4503	5970	STA ICBAL, X
50BA	2056E4	5980	JSR CIOV
50BD	3039	5990	BMI DIRERR
50BF	A230	6000	PDIR LDX ##30
50C1	A996	6010	LDA # <BUFF
50C3	9D4403	6020	STA ICBAL, X
50C6	A900	6030	LDA # >BUFF
50C8	9D4503	6040	STA ICBAL, X
50CB	A905	6050	LDA #CGETR
50CD	9D4203	6060	STA ICCMD, X
50D0	A928	6070	LDA #40
50D2	9D4803	6080	STA ICBLL, X
50D5	2056E4	6090	JSR CIOV
50D8	301E	6100	BMI DIRERR
50DA	A240	6110	LDX ##40
50DC	A900	6120	LDA # >BUFF
50DE	9D4503	6130	STA ICBAL, X
50E1	A996	6140	LDA # <BUFF
50E3	9D4403	6150	STA ICBAL, X
50E6	A928	6160	LDA #40
50E8	9D4803	6170	STA ICBLL, X
50EB	A909	6180	LDA #CPUTR

→ inc 60FLG
cmp #103

→ cmp #802
beg H300.1
Lda

H300.2

→ H300.1

Lda #12

5810

H300.2

sta RBAUD

Bne ?H4A

50ED 9D4203	6190 STA ICCMD, X
50F0 2056E4	6200 JSR CIOV
50F3 3003	6210 BMI DIRERR
50F5 4CBF50	6220 JMP PDIR
	6230 ;
50F8 C003	6240 DIRERR CPY ##03
50FA F007	6250 BEQ DIRDONE
50FC C088	6260 CPY ##88
50FE F003	6270 BEQ DIRDONE
5100 202251	6280 JSR DERROR
5103 A230	6290 DIRDONE LDX ##30
5105 209A42	6300 JSR CIOCB
5108 200C51	6310 JSR WAITKEY
510B 60	6320 RTS
	6330 ;
510C 48	6340 WAITKEY PHA
510D 8A	6350 TXA
510E 48	6360 PHA
510F 98	6370 TYA
5110 48	6380 PHA
5111 20DD5A	6390 JSR CRET
5114 A93B	6400 LDA #59
5116 205C5A	6410 JSR PLINE
5119 20415A	6420 JSR GETKEY
511C 68	6430 PLA
511D A8	6440 TAY
511E 68	6450 PLA
511F AA	6460 TAX
5120 68	6470 PLA
5121 60	6480 RTS
	6490 ;
5122 48	6500 DERROR PHA
5123 8A	6510 TXA
5124 48	6520 PHA
5125 98	6530 TYA
5126 48	6540 PHA
5127 A240	6550 LDX ##40
5129 A924	6560 LDA # <MERROR
512B 9D4403	6570 STA ICBAL, X
512E A94C	6580 LDA # >MERROR
5130 9D4503	6590 STA ICBAL, X
5133 A90E	6600 LDA #14
5135 9D4803	6610 STA ICBLL, X
5138 A900	6620 LDA #0
513A 9D4903	6630 STA ICBLL, X
513D 20D45A	6640 JSR ALLPX
5140 20B730	6650 JSR STERA
5143 68	6660 PLA
5144 85D4	6670 STA FR0
5146 A900	6680 LDA #0
5148 85D5	6690 STA FR0+1
514A 20AAD9	6700 JSR IFP
514D 20E6D8	6710 JSR FASC
5150 200152	6720 JSR PASC
5153 20DD5A	6730 JSR CRET
5156 A900	6740 LDA #0
5158 9D4803	6750 STA ICBLL, X
515B 68	6760 PLA

515C AA	6770	TAX
515D 68	6780	PLA
515E 60	6790	RTS
	6800	;
515F A580	6810	BUFFSZ LDA BUFFER
5161 85D4	6820	STA FR0
5163 A581	6830	LDA BUFFER+1
5165 85D5	6840	STA FR0+1
5167 20AAD9	6850	JSR IFP
516A 20B6DD	6860	JSR FMOVE
516D A5CC	6870	LDA BUFPTR
516F 85D4	6880	STA FR0
5171 A5CD	6890	LDA BUFPTR+1
5173 85D5	6900	STA FR0+1
5175 20AAD9	6910	JSR IFP
5178 20DD5A	6920	JSR CRET
517B 20F551	6930	JSR SUBTR
517E A240	6940	LDX ##40
5180 A90B	6950	LDA # <BMES1
5182 9D4403	6960	STA ICBAL, X
5185 A94C	6970	LDA # >BMES1
5187 9D4503	6980	STA ICBAL, X
518A A90D	6990	LDA #13
518C 9D4803	7000	STA ICBLL, X
518F 2056E4	7010	JSR CIOV
5192 A5CC	7020	LDA BUFPTR
5194 85D4	7030	STA FR0
5196 A5CD	7040	LDA BUFPTR+1
5198 85D5	7050	STA FR0+1
519A 20AAD9	7060	JSR IFP
519D 20B6DD	7070	JSR FMOVE
51A0 AD8804	7080	LDA TOPBUF
51A3 85D4	7090	STA FR0
51A5 AD8904	7100	LDA TOPBUF+1
51A8 85D5	7110	STA FR0+1
51AA 20AAD9	7120	JSR IFP
51AD 20F551	7130	JSR SUBTR
51B0 A240	7140	LDX ##40
51B2 A918	7150	LDA # <BMES2
51B4 9D4403	7160	STA ICBAL, X
51B7 A94C	7170	LDA # >BMES2
51B9 9D4503	7180	STA ICBAL, X
51BC A90C	7190	LDA #12
51BE 9D4803	7200	STA ICBLL, X
51C1 2056E4	7210	JSR CIOV
51C4 A269	7220	LDX # <DANUM
51C6 A04C	7230	LDY # >DANUM
51C8 2098DD	7240	JSR \$DD98
51CB 2028DB	7250	JSR \$DB28
51CE 20D2D9	7260	JSR \$D9D2
51D1 A5D4	7270	LDA FR0
51D3 F002	7280	BEQ CRUD
51D5 C6D4	7290	DEC FR0
51D7 20AAD9	7300	CRUD JSR \$D9AA
51DA 20E6D8	7310	JSR FASC
51DD 200152	7320	JSR PASC
51E0 A240	7330	LDX ##40
51E2 A95A	7340	LDA # <BMES3

51E4	9D4403	7350	STA ICBAL, X
51E7	A94C	7360	LDA # >BMES3
51E9	9D4503	7370	STA ICBAL, X
51EC	A90F	7380	LDA #15
51EE	9D4803	7390	STA ICBLL, X
51F1	2056E4	7400	JSR CIOV
51F4	60	7410	RTS
		7420	;
51F5	2060DA	7430	SUBTR JSR FSUB
51F8	20E6D8	7440	JSR FASC
51FB	A240	7450	LDX ##40
51FD	200152	7460	JSR PASC
5200	60	7470	RTS
		7480	;
5201	A240	7490	PASC LDX ##40
5203	A0FF	7500	LDY ##FF
5205	C8	7510	FPRINT INY
5206	B98005	7520	LDA \$0580, Y
5209	10FA	7530	BPL FPRINT
520B	297F	7540	AND ##7F
520D	998005	7550	STA \$0580, Y
5210	C8	7560	INY
5211	98	7570	TYA
5212	9D4803	7580	STA ICBLL, X
5215	A900	7590	LDA #0
5217	9D4903	7600	STA ICBLL, X
521A	A980	7610	LDA ##80
521C	9D4403	7620	STA ICBAL, X
521F	A905	7630	LDA ##05
5221	9D4503	7640	STA ICBAL, X
5224	A90B	7650	LDA ##0B
5226	9D4203	7660	STA ICCMD, X
5229	2056E4	7670	JSR CIOV
522C	60	7680	RTS
		7690	;
522D	20C842	7700	DELBIF JSR OEDIT
5230	A935	7710	LDA #53
5232	205C5A	7720	JSR PLINE
5235	20A342	7730	JSR OKEYB
5238	A907	7740	GCHCE1 LDA ##07
523A	9D4203	7750	STA ICCMD, X
523D	2056E4	7760	JSR CIOV
5240	30F6	7770	BMI GCHCE1
5242	C959	7780	CMP #'Y
5244	F003	7790	BEQ DELYES
5246	4CAD4D	7800	JMP MENU
		7810	;
5249	ADE702	7820	DELYES LDA \$02E7
524C	85CC	7830	STA BUFPTR
524E	8D8E04	7840	STA MAXTOP
5251	8D8A04	7850	STA BOTBUF
5254	8580	7860	STA BUFFER
5256	8582	7870	STA BUFFER+2
5258	ADE802	7880	LDA \$02E8
525B	85CD	7890	STA BUFPTR+1
525D	8D8F04	7900	STA MAXTOP+1
5260	8D8B04	7910	STA BOTBUF+1
5263	8581	7920	STA BUFFER+1

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5265 8583      7930      STA BUFFER+3
5267 A900      7940      LDA #0
5269 8DAE04    7950      STA BUFFN
526C 8D9C04    7960      STA FULLF
526F 8D9504    7970      STA SAVMOD
5272 20B730    7980      JSR STERA
5275 4CAD4D    7990      JMP MENU
                8000      ;
5278 207139    8010      COPYBF JSR CLOSE
527B A900      8020      LDA #0
527D 8D9404    8030      STA CASFLG
5280 8D9504    8040      STA SAVMOD
5283 8D9604    8050      STA SCRFLG
5286 8D9904    8060      STA PRFLG
5289 A230      8070      LDX ##30
528B 9D4B03    8080      STA ICAX2,X
528E A240      8090      LDX ##40
5290 20C842    8100      JSR OEDIT
5293 A041      8110      LDY #65
5295 98        8120      GROCH TYA
5296 205C5A    8130      JSR PLINE
5299 C8        8140      INY
529A C04B      8150      CPY #75
529C D0F7      8160      BNE GROCH
529E 204356    8170      JSR FPROMT
52A1 3024      8180      BMI NOFN
52A3 A596      8190      LDA BUFF
52A5 C943      8200      CMP #'C
52A7 F021      8210      BEQ CPYCAS
52A9 C944      8220      CMP #'D
52AB F02F      8230      BEQ CPYOP1
52AD C950      8240      CMP #'P
52AF F02B      8250      BEQ CPYOP1
52B1 C953      8260      CMP #'S
52B3 D00B      8270      BNE OPARND
52B5 AD9704    8280      LDA COLFLG
52B8 1022      8290      BPL CPYOP1
52BA A945      8300      LDA #'E
52BC 8596      8310      STA BUFF
52BE D01C      8320      BNE CPYOP1
52C0 C94D      8330      OPARND CMP #'M
52C2 D003      8340      BNE NOFN
52C4 4C9453    8350      JMP CPYMOD
                8360      ;
52C7 4CAD4D    8370      NOFN JMP MENU
                8380      ;
52CA A901      8390      CPYCAS LDA #1
52CC 8D9404    8400      STA CASFLG
52CF A598      8410      LDA BUFF+2
52D1 C953      8420      CMP #'S
52D3 D007      8430      BNE CPYOP1
52D5 A980      8440      LDA ##80
52D7 A230      8450      LDX ##30
52D9 9D4B03    8460      STA ICAX2,X
52DC 201855    8470      CPYOP1 JSR BUFF?
52DF 205143    8480      JSR BINDEX
52E2 207139    8490      JSR CLOSE
52E5 20B653    8500      JSR CPYOPN

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52E8	A230	8510	LDX ##30
52EA	A908	8520	LDA #8
52EC	9D4A03	8530	STA ICAX1,X
52EF	2056E4	8540	JSR CIOV
52F2	1014	8550	BPL CPYOK1
52F4	98	8560	TYA
52F5	48	8570	PHA
52F6	209A42	8580	JSR CIOCB
52F9	209D39	8590	JSR OPEN
52FC	A240	8600	LDX ##40
52FE	68	8610	PLA
52FF	202251	8620	JSR DERROR
5302	200C51	8630	JSR WAITKEY
5305	4C7852	8640	JMP COPYBF
		8650	;
5308	ADB104	8660	CPYOK1 LDA DEFCLR
530B	8DC602	8670	STA \$02C6
530E	A900	8680	LDA #0
5310	8DC802	8690	STA \$02C8
5313	ADB204	8700	LDA DEFCHR
5316	8DC502	8710	STA \$02C5
5319	AD8A04	8720	LDA BOTBUF
531C	85CE	8730	STA PTR
531E	AD8B04	8740	LDA BOTBUF+1
5321	85CF	8750	STA PTR+1
5323	A901	8760	LDA #1
5325	8DFE02	8770	STA \$02FE
5328	A000	8780	CPYLOOP LDY #0
532A	B1CE	8790	LDA (PTR),Y
532C	48	8800	PHA
532D	A5CF	8810	LDA PTR+1
532F	C5CD	8820	CMP BUFPTR+1
5331	D009	8830	BNE PTRINC
5333	A5CE	8840	LDA PTR
5335	C5CC	8850	CMP BUFPTR
5337	D003	8860	BNE PTRINC
5339	4C6553	8870	JMP CPYDONE
		8880	;
533C	E6CE	8890	PTRINC INC PTR
533E	D002	8900	BNE PTROK
5340	E6CF	8910	INC PTR+1
5342	A230	8920	PTROK LDX ##30
5344	A900	8930	LDA #0
5346	9D4803	8940	STA ICBLL,X
5349	9D4903	8950	STA ICBLLH,X
534C	A90B	8960	LDA ##0B
534E	9D4203	8970	STA ICCMD,X
5351	68	8980	PLA
5352	2056E4	8990	JSR CIOV
5355	10D1	9000	BPL CPYLOOP
5357	A900	9010	LDA #0
5359	8DFE02	9020	STA \$02FE
535C	20C842	9030	JSR OEDIT
535F	202251	9040	JSR DERROR
5362	4C6653	9050	JMP CPYDN1
		9060	;
5365	68	9070	CPYDONE PLA
5366	A900	9080	CPYDN1 LDA #0

5368	8DFE02	9090	STA #02FE
536B	A230	9100	LDX ##30
536D	A000	9110	LDY #0
536F	B99600	9120	LDA BUFF, Y
5372	C950	9130	CMP #'P
5374	D00D	9140	BNE NOCR1
5376	A900	9150	LDA #0
5378	9D4803	9160	STA ICBLL, X
537B	9D4903	9170	STA ICBLLH, X
537E	A99B	9180	LDA #155
5380	2056E4	9190	JSR CIOV
5383	A230	9200	NOCR1 LDX ##30
5385	209A42	9210	JSR CIOCB
5388	207139	9220	JSR CLOSE
538B	200C51	9230	JSR WAITKEY
538E	20C842	9240	JSR OEDIT
5391	4CAD4D	9250	JMP MENU
		9260	;
5394	20C842	9270	CPYMOD JSR OEDIT
5397	A93C	9280	LDA #60
5399	205C5A	9290	JSR PLINE
539C	A93D	9300	LDA #61
539E	205C5A	9310	JSR PLINE
53A1	201855	9320	MDMOK JSR BUFF?
53A4	AD8A04	9330	LDA BOTBUF
53A7	85D2	9340	STA SENPTR
53A9	AD8B04	9350	LDA BOTBUF+1
53AC	85D3	9360	STA SENPTR+1
53AE	A901	9370	LDA #1
53B0	8D9504	9380	STA SAVMOD
53B3	4CFC54	9390	JMP TERM3
		9400	;
53B6	A230	9410	CPYOPN LDX ##30
53B8	209A42	9420	JSR CIOCB
53BB	A903	9430	LDA ##03
53BD	9D4203	9440	STA ICCMD, X
53C0	A996	9450	LDA # <BUFF
53C2	9D4403	9460	STA ICBAL, X
53C5	A900	9470	LDA # >BUFF
53C7	9D4503	9480	STA ICBAH, X
53CA	60	9490	RTS
		9500	;
53CB	A900	9510	LOADBF LDA #0
53CD	8D9404	9520	STA CASFLG
53D0	A230	9530	LDX ##30
53D2	9D4803	9540	STA ICAX2, X
53D5	20C842	9550	JSR OEDIT
53D8	A93E	9560	LDA #62
53DA	205C5A	9570	JSR PLINE
53DD	A042	9580	LDY #66
53DF	98	9590	KARL TYA
53E0	205C5A	9600	JSR PLINE
53E3	C8	9610	INY
53E4	C048	9620	CPY #72
53E6	D0F7	9630	BNE KARL
53E8	A94B	9640	LDA #75
53EA	205C5A	9650	JSR PLINE
53ED	204356	9660	JSR FPROMT

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53F0 3014      9670      BMI CMPC
53F2 20C430    9680      JSR STNAME
53F5 A596      9690      LDA BUFF
53F7 C943      9700      CMP #'C
53F9 F00E      9710      BEQ LDCAS
53FB C944      9720      CMP #'D
53FD F01C      9730      BEQ LDOPN
53FF C945      9740      CMP #'E
5401 D003      9750      BNE CMPC
5403 4C5E43    9760      JMP EDITOR
5406 4CAD4D    9770      ;
5409 A901      9780      CMPC JMP MENU
540B 8D9404    9790      ;
540E A598      9800      LDCAS LDA #1
5410 C953      9810      STA CASFLG
5412 D007      9820      LDA BUFF+2
5414 A980      9830      CMP #'S
5416 A230      9840      BNE LDOPN
5418 9D4B03    9850      LDA ##80
541B          9860      LDX ##30
541B 20B653    9870      STA ICAX2,X
541E A908      9880      LDOPN
5420 8D1FD0    9890      JSR CPYOPN
5423 A904      9900      LDA #8
5425 9D4A03    9910      STA CONSOL
5428 2056E4    9920      LDA #4
542B 1009      9930      STA ICAX1,X
542D 202251    9940      JSR CIOV
5430 200C51    9950      BPL LDLOOP
5433 4CCB53    9960      JSR DERROR
5436 A900      9970      JSR WAITKEY
5438 A230      9980      JMP LOADB
543A 9D4803    9990      ;
543D 9D4903    010000      LDLOOP LDA #0
5440 AD9C04    010010      LDX ##30
5443 D060      010020      STA ICBLL,X
5445 AD1FD0    010030      STA ICBLH,X
5448 C907      010040      LDA FULLF
544A F003      010050      BNE BFULL
544C 4CC254    010060      LDA CONSOL
544F AD8904    010070      CMP #7
5452 CD8F04    010080      BEQ LD1
5455 900C      010090      JMP LDONE
5457 D00D      010100      ;
5459 AD8804    010110      LD1 LDA TOPBUF+1
545C CD8E04    010120      CMP MAXTOP+1
545F 9002      010130      BCC JLD1
5461 D003      010140      BNE BOK
5463 4CA554    010150      LDA TOPBUF
5466 AD8804    010160      CMP MAXTOP
5469 38         010170      BCC JLD1
546A ED8E04    010180      BNE BOK
546D 9D4803    010190      JLD1 JMP BFULL
5470          010200      ;
5473 AD8804    010210      BOK LDA TOPBUF
5476 38         010220      SEC
5479 ED8E04    010230      SBC MAXTOP
547C 9D4803    010240      STA ICBLL,X

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5470 AD8904      010250      LDA TOPBUF+1
5473 ED8F04      010260      SBC MAXTOP+1
5476 9D4903      010270      STA ICBLLH, X
5479 AD8E04      010280      LDA MAXTOP
547C 9D4403      010290      STA ICBAL, X
547F AD8F04      010300      LDA MAXTOP+1
5482 9D4503      010310      STA ICCBAH, X
5485 A907        010320      LDA #$07
5487 9D4203      010330      STA ICCMD, X
548A 2056E4      010340      JSR CIOV
548D 3028        010350      BMI LDERR
548F BD4803      010360      ERROK LDA ICBLL, X
5492 18          010370      CLC
5493 6D8E04      010380      ADC MAXTOP
5496 BD8E04      010390      STA MAXTOP
5499 BD4903      010400      LDA ICBLLH, X
549C 6D8F04      010410      ADC MAXTOP+1
549F BD8F04      010420      STA MAXTOP+1
54A2 4C3654      010430      NCARRY JMP LDLOOP
                    010440      ;
54A5 A240        010450      BFULL LDX #$40
54A7 A901        010460      LDA #1
54A9 BD9C04      010470      STA FULLF
54AC 20E15A      010480      JSR BUZZR
54AF A93F        010490      LDA #63
54B1 205C5A      010500      JSR PLINE
54B4 4CC254      010510      JMP LDONE
                    010520      ;
54B7 C088        010530      LDERR CPY #$88
54B9 F007        010540      BEQ LDONE
54BB C003        010550      CPY #$03
54BD F0D0        010560      BEQ ERROK
54BF 202251      010570      JSR DERROR
54C2 A230        010580      LDONE LDX #$30
54C4 BD4803      010590      LDA ICBLL, X
54C7 18          010600      CLC
54C8 6D8E04      010610      ADC MAXTOP
54CB BD8E04      010620      STA MAXTOP
54CE 85CC        010630      STA BUFPTR
54D0 BD4903      010640      LDA ICBLLH, X
54D3 6D8F04      010650      ADC MAXTOP+1
54D6 BD8F04      010660      STA MAXTOP+1
54D9 85CD        010670      STA BUFPTR+1
54DB A230        010680      LDX #$30
54DD 209A42      010690      JSR CIOCB
54E0 200C51      010700      JSR WAITKEY
54E3 4CAD4D      010710      JMP MENU
                    010720      ;
54E6 ADAE04      010730      TERM2 LDA BUFPN
54E9 205143      010740      JSR BINDEX
54EC B98000      010750      LDA BUFFER, Y
54EF 85D2        010760      STA SENPTR
54F1 BD8A04      010770      STA BOTBUF
54F4 B98100      010780      LDA BUFFER+1, Y
54F7 85D3        010790      STA SENPTR+1
54F9 BD8B04      010800      STA BOTBUF+1
54FC A901        010810      TERM3 LDA #1
54FE BD8D3A      010820      STA ERFL

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5501 A240      010830      LDX  #$40
5503 A90B      010840      LDA  #$0B
5505 9D4203    010850      STA  ICCMD, X
5508 20E15A    010860      JSR  BUZZR
550B A940      010870      LDA  #64
550D 205C5A    010880      JSR  PLINE
5510 A900      010890      LDA  #0
5512 8DAF04    010900      STA  DIALF
5515 4C653B    010910      JMP  LOOP2
               010920      ;
5518 ADAE04    010930      BUFF? LDA  BUFFN
551B D005      010940      BNE  BDEFLT
551D A900      010950      LDA  #0
551F 48        010960      PHA
5520 F036      010970      BEQ  DEYDN
5522 A240      010980      BDEFLT LDX  #$40
5524 A90B      010990      LDA  #$0B
5526 9D4203    011000      STA  ICCMD, X
5529 A938      011010      LDA  #56
552B 205C5A    011020      JSR  PLINE
552E 20415A    011030      GKEY JSR  GETKEY
5531 1005      011040      BPL  KEYOK
5533 68        011050      PLA
5534 68        011060      PLA
5535 4CAD4D    011070      JMP  MENU
               011080      ;
5538 C931      011090      KEYOK CMP  #'1
553A 30F2      011100      BMI  GKEY
553C C939      011110      CMP  #'9
553E F002      011120      BEQ  KEYRND
5540 10EC      011130      BPL  GKEY
5542 38        011140      KEYRND SEC
5543 E931      011150      SBC  #$31
5545 CDAE04    011160      CMP  BUFFN
5548 F002      011170      BEQ  NOTBAD
554A 1038      011180      BPL  BADBUF
554C 48        011190      NOTBAD PHA
554D A8        011200      TAY
554E A900      011210      LDA  #0
5550 88        011220      DEYLP DEY
5551 3005      011230      BMI  DEYDN
5553 18        011240      CLC
5554 6902      011250      ADC  #2
5556 D0F8      011260      BNE  DEYLP
5558 A8        011270      DEYDN TAY
5559 B98000    011280      LDA  BUFFER, Y
555C 8D8A04    011290      STA  BOTBUF
555F C8        011300      INY
5560 B98000    011310      LDA  BUFFER, Y
5563 8D8B04    011320      STA  BOTBUF+1
5566 68        011330      PLA
5567 CDAE04    011340      CMP  BUFFN
556A F00D      011350      BEQ  LASTONE
556C C8        011360      INY
556D B98000    011370      LDA  BUFFER, Y
5570 85CC      011380      STA  BUFPTR
5572 C8        011390      INY
5573 B98000    011400      LDA  BUFFER, Y

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5576 85CD      011410    STA BUFPTR+1
5578 60        011420    RTS
                    011430 ;
5579 AD8E04    011440    LASTONE LDA MAXTOP
557C 85CC      011450    STA BUFPTR
557E AD8F04    011460    LDA MAXTOP+1
5581 85CD      011470    STA BUFPTR+1
5583 60        011480    RTS
                    011490 ;
5584 A240      011500    BADBUF LDX #$40
5586 A90B      011510    LDA #$0B
5588 9D4203    011520    STA ICCMD,X
558B A937      011530    LDA #55
558D 205C5A    011540    JSR PLINE
5590 200C51    011550    JSR WAITKEY
5593 68        011560    PLA
5594 68        011570    PLA
5595 4CAD4D    011580    JMP MENU
                    011590 ;
5598          011600    BUFUSED
5598 A900      011610    LDA #0
559A 9D4803    011620    STA ICBLL,X
559D ADAE04    011630    LDA BUFPTR
55A0 18        011640    CLC
55A1 6931      011650    ADC #$31
55A3 2056E4    011660    JSR CIOV
55A6 A936      011670    LDA #54
55A8 205C5A    011680    JSR PLINE
55AB 60        011690    RTS
                    011700 ;
55AC 20C842    011710    DIRDISK JSR QEDIT
55AF A04C      011720    LDY #76
55B1 98        011730    MARX TYA
55B2 205C5A    011740    JSR PLINE
55B5 C8        011750    INY
55B6 C054      011760    CPY #84
55B8 D0F7      011770    BNE MARX
55BA 20415A    011780    DRPROK JSR GETKEY
55BD C931      011790    CMP #$31
55BF F007      011800    BEQ MODISK
55C1 C932      011810    CMP #$32
55C3 F016      011820    BEQ DISKMOD
55C5 4CAD4D    011830    JMP MENU
                    011840 ;
55C8 A900      011850    MODISK LDA #0
55CA 8D9504    011860    STA SAVMOD
55CD A901      011870    LDA #1
55CF 8D9104    011880    STA BINF
55D2 8D9804    011890    STA DISKF
55D5 20EC55    011900    JSR GFILEN
55D8 4CE654    011910    JMP TERM2
                    011920 ;
55DB A901      011930    DISKMOD LDA #1
55DD 8D9504    011940    STA SAVMOD
55E0 8D9104    011950    STA BINF
55E3 8D9804    011960    STA DISKF
55E6 20EC55    011970    JSR GFILEN
55E9 4CE654    011980    JMP TERM2

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011990 ;
55EC A240      012000 GFILEN LDX #$40
55EE 204356    012010 JSR FPRMT
55F1 1005      012020 BPL CKDOPN
55F3 68        012030 DIRBCK PLA
55F4 68        012040 PLA
55F5 4CAD4D    012050 JMP MENU
               012060 ;
55F8 20C430    012070 CKDOPN JSR STNAME
55FB A596      012080 LDA BUFF
55FD C944      012090 CMP #'D
55FF D0F2      012100 BNE DIRBCK
5601 A230      012110 LDX #$30
5603 209A42    012120 JSR CIOCB
5606 AD9504    012130 LDA SAVMOD
5609 D008      012140 BNE DOUTPUT
560B A908      012150 LDA #8
560D 9D4A03    012160 STA ICAX1,X
5610 4C1856    012170 JMP DINPUT
               012180 ;
5613 A904      012190 DOUTPUT LDA #4
5615 9D4A03    012200 STA ICAX1,X
5618 A900      012210 DINPUT LDA #0
561A 9D4B03    012220 STA ICAX2,X
561D A903      012230 LDA #3
561F 9D4203    012240 STA ICCMD,X
5622 A996      012250 LDA # <BUFF
5624 9D4403    012260 STA ICBAL,X
5627 A900      012270 LDA # >BUFF
5629 9D4503    012280 STA ICBAL,X
562C A90F      012290 LDA #15
562E 9D4803    012300 STA ICBLL,X
5631 2056E4    012310 JSR CIOV
5634 1009      012320 BPL DOPNOK
5636 202251    012330 JSR DERROR
5639 200C51    012340 JSR WAITKEY
563C 4CF355    012350 JMP DIRBCK
               012360 ;
563F 20C430    012370 DOPNOK JSR STNAME
5642 60        012380 RTS
               012390 ;
5643          012400 FPRMT
5643 A9F9      012410 LDA # <MFILEN
5645 9D4403    012420 STA ICBAL,X
5648 A94B      012430 LDA # >MFILEN
564A 9D4503    012440 STA ICBAL,X
564D A90E      012450 LDA #14
564F 9D4803    012460 STA ICBLL,X
5652 A900      012470 LDA #0
5654 9D4903    012480 STA ICBLL,X
5657 A90B      012490 LDA #CPUTC
5659 9D4203    012500 STA ICCMD,X
565C 2056E4    012510 JSR CIOV
565F A905      012520 LDA #$05
5661 9D4203    012530 STA ICCMD,X
5664 A926      012540 LDA #38
5666 9D4803    012550 STA ICBLL,X
5669 A996      012560 LDA # <BUFF

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566B 9D4403      012570      STA ICBAL,X
566E A900        012580      LDA # >BUFF
5670 9D4503      012590      STA ICBAL,X
5673 2056E4      012600      JSR CIOV
5676 60          012610      RTS
                    012620      ;
                    012630      ROM .= *
                    012640      .INCLUDE #D2:MENU2.M65
                    10      ;
                    20      ;MENU2.M65
                    30      ;
5677            40          *= ROM
                    50      ;
5677 00          60      ?LCHAR .BYTE 0
5678 00          70      ?TMP  .BYTE 0
5679 00          80      HSPEED .BYTE 0
567A 00          90      XTMP  .BYTE 0
567B 00          0100     LCT  .BYTE 0
567C 00          0110     YTEMP .BYTE 0
567D 022F41      0120      MAGAIN .BYTE 2,"/A" ;REPEAT
5680 050D3056     0130      SETD .BYTE 5,"
QVTA" ;DIGITS
5684 5441
5686 040D5A54     0140      RSTM .BYTE 4,"
ZTA" ;RESET
568A 41
568B 032B2B2B     0150      PLUS .BYTE 3,"+++" ;GO COMMAND
568F 050D3048     0160      HANG .BYTE 5,"
QHTA" ;HANG UP
5693 5441
5695 04544454     0170      MDIL .BYTE 4,"TDTA" ;DIAL PHONE
5699 41
                    0180      ;
569A C90D         0190      ?EOLN CMP #'
                    0200
569C F007         0200      BEQ ?EL
569E C99B         0210      CMP #$9B
56A0 F003         0220      BEQ ?EL
56A2 A901         0230      LDA #1      ;FAILED
56A4 60          0240      RTS
                    0250      ;
56A5 A900         0260      ?EL LDA #0      ;OKAY
56A7 60          0270      RTS
                    0280      ;
56A8            0290      ?MODERR
56A8 A921         0300      LDA #33      ;BAUD MISMATCH
56AA 205C5A       0310      JSR PLINE
56AD 20415A       0320      JSR GETKEY
56B0 68          0330      PLA
56B1 68          0340      PLA
56B2 4CAD4D       0350      JMP MENU
                    0360      ;
56B5            0370      PMCOMM
56B5 8D7756       0380      STA ?LCHAR
56B8 A920         0390      LDA #$20
56BA 8D7856       0400      STA ?TMP
56BD ADFC02       0410      ?OFF0 LDA CH
56C0 C9FF         0420      CMP #$FF
56C2 F003         0430      BEQ ?FT

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0007 101107

0770 0100 100011

5607 0E7856

0450 ;

0460 ?FT DEC ?TMP

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56CA F0DC      0470      BEQ ?MODERR
56CC 202D39    0480      JSR MSTAT
56CF ADED02    0490      LDA 749
56D2 D0E9      0500      BNE ?OFF0
56D4 AD7756    0510      LDA ?LCHAR
56D7 20C138    0520      JSR WRITE
56DA A93C      0530      LDA #60
56DC 8D7856    0540      STA ?TMP
56DF CE7856    0550      ?FXA DEC ?TMP
56E2 F0C4      0560      BEQ ?MODERR
56E4 202D39    0570      JSR MSTAT
56E7 F0F6      0580      BEQ ?FXA
56E9 20A838    0590      JSR READ
56EC 20E35A    0600      JSR ALLPC
56EF 60        0610      RTS
                    0620 ;
56F0 48        0630      ASECOND PHA
56F1 8E7A56    0640      STX XTMP
56F4 A250      0650      LDX #80
56F6 A514      0660      ?XA LDA $14
56F8 C514      0670      ?AS1 CMP $14
56FA F0FC      0680      BEQ ?AS1
56FC CA        0690      DEX
56FD D0F7      0700      BNE ?XA
56FF AE7A56    0710      LDX XTMP
5702 68        0720      PLA
5703 60        0730      RTS
                    0740 ;
5704           0750      GOODMOD
5704 A900      0760      LDA #0
5706 8514      0770      STA $14
5708 8513      0780      STA $13
570A A513      0790      ?GMD1 LDA $13
570C C90A      0800      CMP #10      ;45 SECONDS...
570E F03D      0810      BEQ IWOUT2
5710 ADFC02    0820      LDA CH
5713 C9FF      0830      CMP #$FF
5715 D030      0840      BNE IWOUT1
5717 202D39    0850      JSR MSTAT
571A ADEB02    0860      LDA 747
571D F0EB      0870      BEQ ?GMD1
571F 20A838    0880      JSR READ
5722 C94F      0890      CMP #'0      ;OKAY
5724 F00F      0900      BEQ ?GG1
5726 C943      0910      CMP #'C      ;CONNECT
5728 F00B      0920      BEQ ?GG1
572A C945      0930      CMP #'E      ;ERROR
572C F007      0940      BEQ ?GG1
572E C94E      0950      CMP #'N      ;NO CARRIER
5730 F003      0960      BEQ ?GG1
5732 4C0457    0970      JMP GOODMOD
                    0980 ;
5735 48        0990      ?GG1 PHA
5736 20A838    1000      ?GG2 JSR READ      ;GET EOLN CHAR
5739 C931      1010      CMP #'1      ;CONNECT 1200
573B D003      1020      BNE ?GG3
573D 8D7956    1030      STA HSPEED
5740 209A56    1040      ?GG3 JSR ?EOLN      ;EOLN

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5743 D0F1      1050      BNE ?GG2
5745 68        1060      PLA
5746 60        1070      RTS
                1080      ;
5747 A941      1090      IWOUT1 LDA #'A
5749 20C138    1100      JSR WRITE      ;CALL OFF THE DOGS
574C 60        1110      RTS
                1120      ;
574D A921      1130      IWOUT2 LDA #33
574F 205C5A    1140      JSR PLINE
5752 20415A    1150      JSR GETKEY
5755 68        1160      PLA
5756 68        1170      PLA
5757 4CAD4D    1180      JMP MENU
                1190      ;
575A 20F056    1200      AST JSR ASECOND
575D AC7D56    1210      LDY MAGAIN
5760 8C7B56    1220      STY LCT
5763 AC7B56    1230      ?FF1 LDY LCT
5766 B97D56    1240      LDA MAGAIN,Y
5769 20B556    1250      JSR PMCOMM
576C CE7B56    1260      DEC LCT
576F D0F2      1270      BNE ?FF1
5771 60        1280      RTS
                1290      ;
5772 AC9556    1300      ATDT LDY MDIL
5775 8C7B56    1310      STY LCT
5778 AC7B56    1320      ATDT1 LDY LCT
577B B99556    1330      LDA MDIL,Y
577E 20B556    1340      JSR PMCOMM
5781 CE7B56    1350      DEC LCT
5784 D0F2      1360      BNE ATDT1
5786 60        1370      RTS
                1380      ;
5787          1390      ATV0
5787 AC8056    1400      LDY SETD
578A 8C7B56    1410      STY LCT
578D AC7B56    1420      ?SD1 LDY LCT
5790 B98056    1430      LDA SETD,Y
5793 20B556    1440      JSR PMCOMM
5796 CE7B56    1450      DEC LCT
5799 D0F2      1460      BNE ?SD1
579B 60        1470      RTS
                1480      ;
                1490      ;ENTRY POINT FROM MAIN
                1500      ;
579C 207139    1510      DIAL JSR CLOSE
579F 20C842    1520      JSR OEDIT
57A2 ADAC04    1530      LDA DIALADD
57A5 85C8      1540      STA DIALBF
57A7 ADAD04    1550      LDA DIALADD+1
57AA 85C9      1560      STA DIALBF+1
57AC A900      1570      LDA #0
57AE 8DAB04    1580      STA PLCNT
57B1 8DAF04    1590      STA DIALF
57B4 A900      1600      PLOOP LDA #0
57B6 9D4803    1610      STA ICBLL,X
57B9 9D4903    1620      STA ICBLL,X

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57BC	A90B	1630	LDA #CPUTC
57BE	9D4203	1640	STA ICCMD, X
57C1	ADAB04	1650	LDA PLCNT
57C4	18	1660	CLC
57C5	6930	1670	ADC ##30
57C7	2056E4	1680	JSR CIOV
57CA	A929	1690	LDA #')
57CC	2056E4	1700	JSR CIOV
57CF	A920	1710	LDA ##20
57D1	2056E4	1720	JSR CIOV
57D4	A5C8	1730	LDA DIALBF
57D6	9D4403	1740	STA ICBAL, X
57D9	A5C9	1750	LDA DIALBF+1
57DB	9D4503	1760	STA ICBAL, X
57DE	A909	1770	LDA #CPUTR
57E0	9D4203	1780	STA ICCMD, X
57E3	A922	1790	LDA #34
57E5	9D4803	1800	STA ICBLL, X
57E8	2056E4	1810	JSR CIOV
57EB	A5C8	1820	LDA DIALBF
57ED	18	1830	CLC
57EE	6923	1840	ADC #35
57F0	85C8	1850	STA DIALBF
57F2	9002	1860	BCC NOCARY
57F4	E6C9	1870	INC DIALBF+1
57F6	EEAB04	1880	NOCARY INC PLCNT
57F9	ADAB04	1890	LDA PLCNT
57FC	C90A	1900	CMP #10
57FE	D0B4	1910	BNE FLOOP
		1920	;
		1930	; DONE PRINTING PHONE #'S
		1940	;
5800	20DD5A	1950	JSR CRET
5803	AD9E04	1960	LDA ANSFLG
5806	D007	1970	BNE ANSF1
5808	A910	1980	LDA #16
580A	8D9F04	1990	STA INVST
580D	D005	2000	BNE ANSF44
580F	A914	2010	ANSF1 LDA #20
5811	8D9F04	2020	STA INVST
5814	A916	2030	ANSF44 LDA #22
5816	205C5A	2040	JSR PLINE
5819	ADB004	2050	LDA QDIAL
581C	D007	2060	BNE YESSIR
581E	A911	2070	LDA #17
5820	8D9F04	2080	STA INVST
5823	D005	2090	BNE FRAN1
5825	A915	2100	YESSIR LDA #21
5827	8D9F04	2110	STA INVST
582A	A917	2120	FRAN1 LDA #23
582C	205C5A	2130	JSR PLINE
582F	A018	2140	PREST LDY #24
5831	98	2150	HARPO TYA
5832	205C5A	2160	JSR PLINE
5835	C8	2170	INY
5836	C01F	2180	CPY #31
5838	D0F7	2190	BNE HARPO
583A	20F430	2200	JSR STLINE

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583D 20415A      2210 AKEY? JSR GETKEY
5840 C941        2220      CMP #'A
5842 F06F        2230      BEQ CHANSWR
5844 C942        2240      CMP #'B
5846 D00B        2250      BNE C?
5848 A901        2260      LDA #1
584A 4DB004      2270      EOR QDIAL
584D 8DB004      2280      STA QDIAL
5850 4C9C57      2290      JMP DIAL
                  2300 ;
5853 C943        2310 C?  CMP #'C
5855 F067        2320      BEQ CHDIAL
5857 C944        2330      CMP #'D
5859 D003        2340      BNE E?
585B 4C7559      2350      JMP CHCHAN
                  2360 ;
585E C945        2370 E?  CMP #'E
5860 D006        2380      BNE F?
5862 20A058      2390      JSR CLOG
5865 4C9C59      2400      JMP CHLOAD
                  2410 ;
5868 C946        2420 F?  CMP #'F
586A D003        2430      BNE G?
586C 4CCF59      2440      JMP CHSAVE
                  2450 ;
586F C947        2460 G?  CMP #'G
5871 D0CA        2470      BNE AKEY?      ;HANGP
5873 4CAD4D      2480      JMP MENU
                  2490 ;
5876 209D39      2500 HANGP JSR OPENM2 ;CHANGEIFDTROK
5879 20F056      2510      JSR ASECOND ;NOGO IF AVATEX
587C AC8B56      2520      LDY PLUS
587F B98B56      2530 ?HGP1 LDA PLUS,Y
5882 20C138      2540      JSR WRITE
5885 88          2550      DEY
5886 D0F7        2560      BNE ?HGP1
5888 20F056      2570      JSR ASECOND
588B 200457      2580      JSR GOODMOD
588E AC8F56      2590      LDY HANG
5891 B98F56      2600 ?HGP2 LDA HANG,Y
5894 20C138      2610      JSR WRITE
5897 88          2620      DEY
5898 D0F7        2630      BNE ?HGP2
589A 207139      2640      JSR CLOSEM
589D 4C9C57      2650      JMP DIAL
                  2660 ;
58A0 AD3C4C      2670 CLOG LDA MDISK+7
58A3 C933        2680      CMP ##33
58A5 F005        2690      BEQ MUN1
58A7 EE3C4C      2700      INC MDISK+7
58AA D006        2710      BNE MUN3
58AC CE3C4C      2720 MUN1 DEC MDISK+7
58AF CE3C4C      2730      DEC MDISK+7
58B2 60          2740 MUN3 RTS
                  2750 ;
58B3 AD9E04      2760 CHANSWR LDA ANSFLG
58B6 4901        2770      EOR #1
58B8 8D9E04      2780      STA ANSFLG

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58BB 4C9C57      2790      JMP DIAL
                    2800      ;
58BE A900        2810 CHDIAL LDA #0
58C0 8D9E04      2820      STA ANSFLG
58C3 20E558      2830      JSR PRNUMB
58C6 1003        2840      BPL CDIAL1
58C8 4CAD4D      2850      JMP MENU
                    2860      ;
58CB            2870 CDIAL1
58CB A909        2880      LDA #CPUTR
58CD 9D4203      2890      STA ICCOM,X
58D0 A5C8        2900      LDA DIALBF
58D2 9D4403      2910      STA ICBAL,X
58D5 A5C9        2920      LDA DIALBF+1
58D7 9D4503      2930      STA ICBAL,X
58DA A923        2940      LDA #35
58DC 9D4803      2950      STA ICBLL,X
58DF 2056E4      2960      JSR CIOV
58E2 4C1959      2970      JMP DIALNUM
                    2980      ;
58E5 A91F        2990 PRNUMB LDA #31
58E7 205C5A      3000      JSR PLINE
58EA 20415A      3010 BADK1 JSR GETKEY
58ED 1001        3020      BPL GOODKY
58EF 60          3030      RTS
                    3040      ;
58F0 C930        3050 GOODKY CMP #'0
58F2 30F6        3060      BMI BADK1
58F4 C940        3070      CMP #'@
58F6 10F2        3080      BPL BADK1
58F8 38          3090      SEC
58F9 E930        3100      SBC ##30
58FB A8          3110      TAY
58FC ADAC04      3120      LDA DIALADD
58FF 85C8        3130      STA DIALBF
5901 ADAD04      3140      LDA DIALADD+1
5904 85C9        3150      STA DIALBF+1
5906 88          3160 FINDNUM DEY
5907 300D        3170      BMI NUMFND
5909 A5C8        3180      LDA DIALBF
590B 18          3190      CLC
590C 6923        3200      ADC #35
590E 85C8        3210      STA DIALBF
5910 9002        3220      BCC ADDNC2
5912 E6C9        3230      INC DIALBF+1
5914 D0F0        3240 ADDNC2 BNE FINDNUM
5916 A900        3250 NUMFND LDA #0      ;SEND STATUS
5918 60          3260      RTS
                    3270      ;
5919 209D39      3280 DIALNUM JSR OPENM2
591C 20F056      3290      JSR ASECOND
591F 207257      3300      JSR ATDT
5922 A0FF        3310 ?BN2 LDY ##FF
5924 C8          3320 BADNUM INY
5925 B1C8        3330      LDA (DIALBF),Y
5927 C99B        3340      CMP #155
5929 F010        3350      BEQ DLDONE
592B C920        3360      CMP ##20      ;EOLN OR BLANK

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592D F00C      3370      BEQ DLDONE ;IS TERMINATOR
592F 8C7C56    3380      DIGOK STY YTEMP
5932 20B556    3390      JSR PMCOMM
5935 AC7C56    3400      LDY YTEMP
5938 4C2459    3410      JMP BADNUM
                3420      ;
593B A90D      3430      DLDONE LDA #'

593D 20B556    3440      JSR PMCOMM
5940 20F056    3450      JSR ASECOND
5943 209D39    3460      JSR OPENM2
5946 A901      3470      LDA #1
5948 8DC93A    3480      STA PHONE
594B 8DAF04    3490      STA DIALF
594E 200457    3500      JSR GOODMOD ;GET 0 (OK)
5951 C94E      3510      CMP #'N ;NO CARRIER
5953 F00E      3520      BEQ OTZ
5955 C943      3530      CMP #'C ;DIAL...
5957 F007      3540      BEQ OTZ0 ;1,5=CONNECT
5959 C94F      3550      CMP #'0
595B F006      3560      BEQ OTZ
595D 4C9C57    3570      OTZA JMP DIAL
                3580      ;
5960 4CFC54    3590      OTZ0 JMP TERM3
                3600      ;
5963           3610      OTZ
5963 ADB004    3620      LDA QDIAL ;AUTO REDIAL?
5966 F0F5      3630      BEQ OTZA
5968 ADFC02    3640      LDA #02FC ;LET ME OUT
596B C9FF      3650      CMP #$FF
596D D0EE      3660      BNE OTZA
596F 205A57    3670      JSR AST ;DO IT AGAIN
5972 4C3B59    3680      JMP DLDONE
                3690      ;
                3700      ;
2071139       3710      ;RETURNS STARTING ADDR OF NUMBER
20A559         3720      ;
5975 20E558    3730      CHCHAN JSR PRNUMB
5978 1003      3740      BPL CCHAN1
597A 4CAD4D    3750      JMP MENU
                3760      ;
597D A920      3770      CCHAN1 LDA #32
597F 205C5A    3780      JSR PLINE
5982 A5C8      3790      LDA DIALBF
5984 9D4403    3800      STA ICBAL,X
5987 A5C9      3810      LDA DIALBF+1
5989 9D4503    3820      STA ICBAL,X
598C A922      3830      LDA #34
598E 9D4803    3840      STA ICBLL,X
5991 A905      3850      LDA #5
5993 9D4203    3860      STA ICCMD,X
5996 2056E4    3870      JSR CIOV
5999 4C9C57    3880      JMP DIAL
                3890      ;
599C 207139    3900      CHLOAD JSR CLOSE
599F 20A559    3910      JSR LDNUM
59A2 4C9C57    3920      JMP DIAL
                3930      ;
59A5 20FA59    3940      LDNUM JSR PROPEN

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59A8 A904      3950      LDA #4          ;INPUT
59AA 9D4A03    3960      STA ICAX1,X
59AD 201F5A    3970      JSR PRTRANS
59B0 3017      3980      BMI CHLD2
59B2 A907      3990      LDA #CGETC
59B4 9D4203    4000      STA ICCMD,X
59B7 2056E4    4010      JSR CIOV
59BA 100D      4020      BPL CHLD2
59BC C988      4030      CMP #136        ;EOF
59BE F009      4040      BEQ CHLD2
59C0 20C842    4050      JSR QEDIT
59C3 202251    4060      JSR DERROR
59C6 200C51    4070      JSR WAITKEY
59C9 A230      4080      CHLD2 LDX ##30
59CB 209A42    4090      JSR CIOCB
59CE 60        4100      RTS
                    4110      ;
59CF 207139    4120      CHSAVE JSR CLOSE
59D2 20FA59    4130      JSR PROPEN
59D5 A908      4140      LDA #8
59D7 9D4A03    4150      STA ICAX1,X
59DA 201F5A    4160      JSR PRTRANS
59DD 300A      4170      BMI CHSA2
59DF A90B      4180      LDA #CPUTC
59E1 9D4203    4190      STA ICCMD,X
59E4 2056E4    4200      JSR CIOV
59E7 1006      4210      BPL CHSA3
59E9 202251    4220      CHSA2 JSR DERROR
59EC 200C51    4230      JSR WAITKEY
59EF A230      4240      CHSA3 LDX ##30
59F1 209A42    4250      JSR CIOCB
59F4 209D39    4260      JSR OPEN
59F7 4C9C57    4270      JMP DIAL
                    4280      ;
59FA A230      4290      PROPEN LDX ##30
59FC 209A42    4300      JSR CIOCB
59FF A509      4310      LDA #09
5A01 D00C      4320      BNE DISKBT
5A03 A932      4330      LDA # <MCASS
5A05 9D4403    4340      STA ICBAL,X
5A08 A94C      4350      LDA # >MCASS
5A0A 9D4503    4360      STA ICBAL,X
5A0D D00A      4370      BNE OPDEV
5A0F A935      4380      DISKBT LDA # <MDISK
5A11 9D4403    4390      STA ICBAL,X
5A14 A94C      4400      LDA # >MDISK
5A16 9D4503    4410      STA ICBAL,X
5A19 A900      4420      OPDEV LDA #0
5A1B 9D4B03    4430      STA ICAX2,X
5A1E 60        4440      RTS
                    4450      ;
5A1F A903      4460      PRTRANS LDA #COPEN
5A21 9D4203    4470      STA ICCMD,X
5A24 2056E4    4480      JSR CIOV
5A27 1001      4490      BPL PRTR0K
5A29 60        4500      RTS
                    4510      ;
5A2A ADAC04    4520      PRTR0K LDA DIALADD

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5A2D 9D4403	4530	STA ICBAL, X
5A30 ADAD04	4540	LDA DIALADD+1
5A33 9D4503	4550	STA ICBAL, X
5A36 A960	4560	LDA ##60
5A38 9D4803	4570	STA ICBL, X
5A3B A901	4580	LDA ##01
5A3D 9D4903	4590	STA ICBLH, X
5A40 60	4600	RTS
	4610	;
5A41 8A	4620	GETKEY TXA
5A42 48	4630	PHA
5A43 20A342	4640	JSR OKEYB
5A46 A907	4650	LDA #CGETC
5A48 9D4203	4660	STA ICCMD, X
5A4B 2056E4	4670	JSR CIOV
5A4E 8DAB04	4680	STA PLCNT
5A51 08	4690	PHP
5A52 209A42	4700	JSR CIOCB
5A55 28	4710	PLP
5A56 68	4720	PLA
5A57 AA	4730	TAX
5A58 ADAB04	4740	LDA PLCNT
5A5B 60	4750	RTS
	4760	;
	4770	PRINTS LINE INDEXED BY ACC
	4780	;
5A5C 8DAB04	4790	PLINE STA PLCNT
5A5F 98	4800	TYA
5A60 48	4810	PHA
5A61 CEAB04	4820	DEC PLCNT
5A64 A97F	4830	LDA # <M0
5A66 85C6	4840	STA PLPTR
5A68 A945	4850	LDA # >M0
5A6A 85C7	4860	STA PLPTR+1
5A6C A000	4870	LDY #0
5A6E A5C6	4880	LOOKCR LDA PLPTR
5A70 18	4890	CLC
5A71 6901	4900	ADC #1
5A73 85C6	4910	STA PLPTR
5A75 9002	4920	BCC LCR1
5A77 E6C7	4930	INC PLPTR+1
5A79 B1C6	4940	LCR1 LDA (PLPTR), Y
5A7B 10F1	4950	BPL LOOKCR
5A7D CEAB04	4960	FNDCCR DEC PLCNT
5A80 D0EC	4970	BNE LOOKCR
5A82 C8	4980	YAZ INY
5A83 A200	4990	LDX #0
5A85 B1C6	5000	LDA (PLPTR), Y
5A87 1004	5010	BPL OKAY
5A89 A240	5020	LDX ##40
5A8B 297F	5030	AND ##7F
5A8D CC9F04	5040	OKAY CPY INVST
5A90 300A	5050	BMI OKAY
5A92 C92F	5060	CMP #' /
5A94 F037	5070	BEQ NOMOR
5A96 C920	5080	CMP ##20
5A98 F033	5090	BEQ NOMOR
5A9A 0980	5100	ORA ##80

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5A9C 990004      5110 OOKAY STA IOBUFF,Y
5A9F E040        5120      CPX ##40
5AA1 D0DF        5130      BNE YAZ
5AA3 C8          5140      INY
5AA4 A97F        5150      LDA ##7F
5AA6 8D9F04      5160      STA INVST
5AA9 A99B        5170      LDA ##9B
5AAB 990004      5180      STA IOBUFF,Y
5AAE A901        5190      LDA # <IOBUFF+1
5AB0 9D4403      5200      STA ICBAL,X
5AB3 A904        5210      LDA # >IOBUFF+1
5AB5 9D4503      5220      STA ICBAL,X
5AB8 A92B        5230      LDA #40
5ABA 9D4803      5240      STA ICBLL,X
5ABD A900        5250      LDA #0
5ABF 9D4903      5260      STA ICBLL,X
5AC2 A909        5270      LDA #CPUSTR
5AC4 9D4203      5280      STA ICCMD,X
5AC7 2056E4      5290      JSR CIOV
5ACA 68          5300      PLA
5ACB A8          5310      TAY
5ACC 60          5320      RTS
                    5330 ;
5ACD A27F        5340 NOMOR LDX ##7F
5ACF 8E9F04      5350      STX INVST
5AD2 D0C8        5360      BNE OOKAY
5AD4 A90B        5370 ALLPX LDA ##0B
5AD6 9D4203      5380      STA ICCOM,X
5AD9 2056E4      5390      JSR CIOV
5ADC 60          5400      RTS
                    5410 ;
5ADD A99B        5420 CRET LDA ##9B
5ADF D002        5430      BNE ALLPC
5AE1 A9FD        5440 BUZZR LDA ##FD
5AE3 48          5450 ALLPC PHA
5AE4 A240        5460      LDX ##40
5AE6 A90B        5470      LDA ##0B
5AE8 9D4203      5480      STA ICCOM,X
5AEB A900        5490      LDA #0
5AED 9D4803      5500      STA ICBLL,X
5AF0 9D4903      5510      STA ICBLL,X
5AF3 68          5520      PLA
5AF4 2056E4      5530      JSR CIOV
5AF7 60          5540      RTS
                    5550 ;
5AF8 454F46      5560 ENDPR .BYTE "EOF"
                    5570 ;
5AFB             5580      .END

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ASSEMBLY ERRORS: 0 16115 BYTES FREE

3092 A1?	30B6 A2?	30BB A3?	30C9 A4?
30D6 A5?	30E9 A6?	30FA A7?	=0006 ACK
5914 ADDNC2	=D800 AFP	583D AKEY?	5AE3 ALLPC
=D208 ALLPOT	5AD4 ALLPX	580F ANSF1	5814 ANSF44
049E ANSFLG	56F0 ASECOND	575A AST	5772 ATDT
5778 ATDT1	5787 ATV0	=D201 AUDC1	=D208 AUDCTL
=D200 AUDF1	=D202 AUDF2	=D204 AUDF3	=D206 AUDF4
3147 B1?	3152 B2?	5584 BADBUF	58EA BADK1
5924 BADNUM	3AC5 BAUD	364E BAUDIN_TBL	363E BAUDOUT_TBL
5522 BDEFLT	0487 BDFLG	3AC2 BFPT5	54A5 BFULL
31D6 BID1	31DA BID2	38F7 BIGX10	4351 BINDEX
0491 BINF	0492 BIT8F	3FE7 BLKNUM	4354 BLOOP
4FD0 BMENU	4C0B BMES1	4C18 BMES2	4C5A BMES3
5466 BOK	048A BOTBUF	=0011 BRKKEY	0096 BUFF
5518 BUFF?	0080 BUFFER	04AE BUFFN	515F BUFFSZ
048C BUFMAX	4318 BUFOK	=00CC BUFPTR	5598 BUFUSED
4074 BUGG1	3ED9 BUGG2	5AE1 BUZZR	
3160 C1?	3162 C2?	3170 C3?	3172 C4?
3182 C5?	3180 C6?	3188 C9?	5853 C?
4F35 CA	=0018 CAN	=0080 CARDETLO	4E08 CARND
3B6F CAROK	4DAA CASBT	0494 CASFLG	4F3C CB
4F43 CC	597D CCHAN1	=000C CCLOSE	4F0C CCTL
4F4A CD	58CB CDIAL1	4F51 CE	4F58 CF
=0007 CGETC	=0005 CGETR	=02FC CH	4F67 CH1
=D401 CHACTL	58B3 CHANSWR	37A1 CHAR	=02F3 CHART
=02F4 CHBAS	=D409 CHBASE	5975 CHCHAN	58BE CHDIAL
3ABB CHKSUM	59C9 CHLD2	599C CHLOAD	59E9 CHSA2
59EF CHSA3	59CF CHSAVE	4F7C CI	429A CIOCB
=E456 CIOV	4F8B CJ	500A CK	55F8 CKDOPN
5031 CL	4D9D CLEER	=FCD8 CLICK	4522 CLOCKOFF
4511 CLOCKON	58A0 CLOG	0485 CLOK	3AD5 CLOOP1
3971 CLOSE	31FB CLOSE.1	31F0 CLOSECON	398E CLOSED
3971 CLOSEM	5038 CM	5406 CMPC	4F06 COF
=D01A COLBK	0497 COLFLG	=02C4 COLOR0	=D016 COLPF0
=D012 COLPM0	3E29 CON1	3BBE CON76	37A0 CONCUR
3E87 CONGO	=D01F CONSOL	3D24 CONTI2	4561 CONVCL
=0003 COPEN	5278 COPYBF	503F CP	5064 CP0
505B CP1	5069 CPSTR	=000B CPUTC	=0009 CPUTR
52CA CPYCAS	5366 CPYDN1	5365 CPYDONE	5328 CPYLOOP
5394 CPYMOD	5308 CPYOK1	52DC CPYOP1	53B6 CPYOPN
5ADD CRET	4D9F CRLOOP	51D7 CRUD	382C CRX
=000D CSTATUS	44BD CSVBK	44BB CSVBKI	506F CT
382D CTS	=0224 CVVBLKD	=0222 CVVBLKI	4F32 CXF
3185 D3?	4C69 DANUM	=030A DAUX1	=030B DAUX2
=0305 DBUFHI	=0304 DBUFLO	=0309 DBYTHI	=0308 DBYTLO
=0302 DCOMND	=0300 DDEVIC	04B2 DEFCHR	04B1 DEFCLR
522D DELBF	5249 DELYES	3AC4 DERFLG	5122 DERROR
5558 DEYDN	5550 DEYLP	579C DIAL	04AC DIALADD
=00C8 DIALBF	04AF DIALF	5919 DIALNUM	592F DIGOK
5618 DINPUT	55F3 DIRBCK	55AC DIRDISK	5103 DIRDONE
5099 DIRECT	50F8 DIRERR	=0001 DISK	5A0F DISKBT
0498 DISKF	4496 DISKFUN	55DB DISKMOD	301C DL2T
3000 DLDAT	593B DLDONE	=D403 DLISTH	=D402 DLISTL
=D400 DMACTL	452E DOCLK	4555 DOCOLON	3F17 DONT
563F DOPNOK	=000C DOSINI	3501 DOSINIT	368F DOSINI_OLD
=000A DOSVEC	5613 DOUTPUT	3828 DPLX	049D DPRFLG
55BA DRPROK	=0030 DSK	3CAE DSKERR	420B DSKFIX

43DD DSKFNC	=02FE DSPFLG	382E DSR	=0303 DSTATS
=0306 DTIMLO	3829 DTR	=00FE DTROFF	=0001 DTRON
=0301 DUNIT	3C1F DUPHLF	0486 DUPLEX	0493 DUPLF
=02EA DVSTAT			
585E E?	3DED ECHO	43B6 EDERR	42FB EDIT
4361 EDITLP	435E EDITOR	43CF EFULL	38E5 ENDOPT
5AF8 ENDPR	3AC6 ENDRAM	3885 ENDTE1	38ED ENDTEST
=0004 EOT	411E EOTMES	3ABD ERFL	548F ERROK
=0000 EXITTODOS			
4E22 F1	30F3 F6?	5868 F?	=D8E6 FASC
38A4 FCNX	=DB28 FDIV	362A FIGRPAR	362C FIGRPAR.1
3630 FIGRPAR.2	5906 FINDNUM	3AB8 FIRSTBLOCK	=DDB6 FMOVE
38A5 FNCY	5A7D FNDCLR	3B22 FORSEC	=D9D2 FPI
5205 FPRINT	5643 FPROMT	=00D4 FR0	4259 FRAK
44B7 FRAME	582A FRAN1	4F10 FRANG	=DA60 FSUB
049C FULLF			
4E27 G0	586F G?	4EEA GCHCE	5238 GCHCE1
4EF2 GCHOK	=0007 GETBIN	3321 GETBYTE.1	3329 GETBYTE.2
335C GETBYTE.5	3366 GETBYTE.6	3368 GETBYTE.7	336B GETBYTE.8
37C8 GETEM	37A3 GETHDR	5A41 GETKEY	3F77 GETREC
3F7C GETRTY	337A GETTRANS	3386 GETTRANS.1	3392 GETTRANS.2
3395 GETTRANS.3	=0007 GETTXT	55EC GFILEN	552E GKEY
3C50 GOERR	44F5 GONE	58F0 GOODKY	5704 GOODMOD
404F GOODREC	3AC8 GOTREC	=026F GPRIOR	=D01D GRACTL
=D011 GRAFM	=D00D GRAFP0	3EE7 GREC	3BB1 GREEN
5295 GROCH	3FBB GSOH	3C7C GTERM	448A GUDNUM
415E GXC	4159 GXCHAR		
4E2C H0	4E38 H1	568F HANG	5876 HANGP
3B43 HANGUP	5831 HARPO	4DA7 HARR	=031A HATABS
04B9 HDRBFF	44A5 HIP?	=D014 HITCLR	=D004 HPOSM0
=D000 HPOSP0	44B9 HRS	=D404 HSCROL	5679 HSPEED
379F HVYTR	325D HVYTRANS	3265 HVYTRANS.1	
4E3D I0	4E4E I1	=034A ICAX1	=002A ICAX1Z
=034B ICAX2	=002B ICAX2Z	=0345 ICBAH	=0025 ICBAHZ
=0344 ICBAL	=0024 ICBALZ	=0349 ICBLLH	=0029 ICBLLHZ
=0348 ICBLL	=0028 ICBLLZ	=0342 ICCMD	=0342 ICCOM
=0022 ICCOMZ	=0021 ICDNOZ	=002C ICSPRZ	=D9AA IFP
=0080 INBUF_LEN	3C41 INCH	417D INCHAR	3DA3 INCONV
4324 INCRND	435D INDONE	04A7 INIBYTE	04A0 INIT
34B6 INIT.0	34B8 INIT.1	34C9 INIT.2	=3901 INITMODEM
=00CA INPBUF	352E INPUT	41B6 INTEST	049F INVST
3691 IN_BUFFER	=0400 IOBUFF	35FF IOOFF	3617 IOOFF.1
359A IOON	35C2 IOON.1	35F5 IOON.2	=D20E IRGEN
3596 IRQRETURN	=D20E IRQST	3519 IRQVECTOR	3521 IRQVECTOR.1
368D IRQ_OLD	5747 IWOUT1	574D IWOUT2	
4E53 J0	4E66 J1	4E6D J2	4E78 J3
5463 JLD1	3ADF JLP2	4F79 JMEN	
4E7D K0	4EB0 K1	4EB7 K2	53DF KARL
=D209 KBCODE	3C80 KEEPER	42F9 KEYB	04B5 KEYF
04B6 KEYF2	5538 KEYOK	5542 KEYRND	3B36 KEYSNT
3ABE KEYTOG	44BF KLOK		
3AC7 LASTCH	5579 LASTONE	3AC0 LASTREC	5A79 LCR1
567B LCT	544F LD1	5409 LDCAS	54B7 LDERR
5436 LDLOOP	59A5 LDNUM	54C2 LDONE	541B LDOPN
3831 LF	53CB LOADBF	049A LOADF	5A6E LOOKCR
3ACD LOOP1	3B65 LOOP2	3B68 LOOP3	37F2 LOOPZA
4564 LP1	=0234 LPENH	=0235 LPENV	3EDB LUP
3EDD LUPNOW	40E7 LZP		

457F M0	=D000 M0PF	=D008 M0PL	4580 M1
4638 M10	464C M11	4669 M12	4680 M13
4698 M14	46B2 M15	46CD M16	46E6 M17
46FC M18	470D M19	4581 M2	471E M20
473E M21	473F M22	4754 M23	476A M24
477D M25	478E M26	47A7 M27	47C1 M28
47D6 M29	45A5 M3	47D7 M30	47DE M31
47E5 M32	47F0 M33	480E M34	482E M35
482F M36	4841 M37	4850 M38	485F M39
45C4 M4	486E M40	487B M41	488A M42
489F M43	48A0 M44	48A7 M45	48BB M46
48D5 M47	48EE M47P	48F2 M48	48F9 M49
45C5 M5	4901 M50	4909 M51	490F M52
4917 M53	492C M54	4939 M55	494B M56
495C M57	4969 M58	4970 M59	45DB M6
498A M60	499B M61	49BA M62	49D4 M63
49E3 M64	49F4 M65	4A0D M66	4A1F M67
4A20 M68	4A32 M69	45F4 M7	4A33 M70
4A49 M71	4A5B M72	4A6E M73	4A82 M74
4A97 M75	4AB2 M76	4AD2 M77	4AF2 M78
4B00 M79	460D M8	4B01 M80	4B19 M81
4B31 M82	4B32 M83	4B39 M84	4B51 M85
4B67 M86	4B8A M87	4BA0 M88	4BA7 M89
4623 M9	4BAF M90	4BC0 M91	4BE3 M92
4BF7 M93	567D MAGAIN	55B1 MARX	3635 MASKHIBIT
048E MAXTOP	4C07 MBAUD	4C09 MBAUD1	4C32 MCASS
3CB1 MCPERR	5695 MDIL	4C35 MDISK	53A1 MDMOK
=02E7 MEMLO	=02E5 MEMTOP	4DAD MENU	4EEF MENU1
4C24 MERROR	4BF9 MFILEN	44BA MIN	3F32 MOCHR
=0060 MOD	379D MODE	=3901 MODINIT	55C8 MODISK
4077 MOVEBLOCK	38E0 MSPEC1	38E1 MSPEC2	38E2 MSPEC3
392D MSTAT	392D MSTATS	58AC MUN1	58B2 MUN3
4C42 MX64	4C4E MX80		
3CC5 NAFULL	=0015 NAK	3D9C NBEL	3DA2 NBSP
54A2 NCARRY	3D96 NCLR	3D90 NCR	3DF2 NECHO
3BA1 NENDTE	3C53 NERK08	3D81 NERR4	42FD NEWBUFF
=D40E NMIE	=D40F NMIRES	=D40F NMIST	4D8E NO80COL
3DB6 NOBEL	3D12 NOBERR	3B71 NOBRK1	3DBC NOBSP
43C2 NOCAR1	43AE NOCARRY	57F6 NOCARY	4147 NOCHAR
3DC2 NOCLR	3DB0 NOCR	5383 NOCR1	40BB NODSK
3E52 NOEKCH	3D76 NOEOF	52C7 NOFN	3C3E NOGO
3D13 NOINCH	3C20 NOKEY	5ACD NOMOR	5007 NOOPN1
3EC6 NOOPT	3AED NOOPT1	3F8E NOPST	3FD7 NOPST2
3FC8 NOPSTOP	3E3B NOOUT	3F9E NOREC3	3AFA NORING
3BDD NOSAVM	3D40 NOSFUL	3FB8 NOST2	3B97 NOSTART
3E45 NOTAGN	554C NOTBAD	3E61 NOTCAN	4378 NOTFUL
41C5 NOTNOW	3DCB NOTRAN	3CFD NOTZE	3822 NOWAY
3CCE NOZIP	3FA1 NREMSTO	3B14 NSTART	3E36 NTIME
5916 NUMFND	3F89 NXTOK		
42C8 OEDIT	38DE OFFHOOK	5A8D OKAY	42A3 OKEYB
3074 OLDDL	0483 OLDMEMTOP	3791 OLD_VECTOR	04B3 OMTOP
38DF ONHOOK	5A9C OKAY	52C0 OPARND	5A19 OPDEV
=399D OPEN	320E OPEN.1	3218 OPEN.2	3951 OPENM
399D OPENM2	3ACA OPFLG	40A3 OPSTOP	37A2 ORBAUD
=E474 OSRETN	5963 OTZ	595D OTZA	5960 OTZ0
3193 OUT?	=0080 OUTBUF_LEN	3D85 OUTCON	3DCC OUTD01
3569 OUTPUT	3582 OUTPUT.1	358F OUTPUT.2	3810 OUTZ
3711 OUT_BUFFER			

=D004 POPF	=D00C POPL	=D302 PACTL	=0270 PADDL0
3F23 PADLOP	3830 PAR	38A6 PARFLG	3284 PARITY1
328E PARITY0	5201 PASC	=D303 PBCTL	41E4 PBLKNUM
=02C0 PCOLR0	50BF PDIR	=D40C PENH	=D40D PENV
3AC9 PHONE	3AF5 PHYES	4180 PIT	04AB PLCNT
5A5C PLINE	57B4 PLOOP	=00C6 PLPTR	568B PLUS
=D407 PMBASE	56B5 PMCOMM	=0010 POKMSK	=D300 PORTA
=D301 PORTB	=D200 POT0	=D20B POT60	582F PREST
0499 PRFLG	=D01B PRIOR	58E5 PRNUMB	3188 PRNWIN
=0000 PROM	59FA PROPEN	=00D0 PRPTR	5A1F PRTRANS
5A2A PRTR0K	=00CE PTR	533C PTRINC	5342 PTROK
=000B PUTBIN	3235 PUTBYTE.2	32E9 PUTCONCUR	330C PUTCONCUR.1
330E PUTCONCUR.2	3268 PUTIT	3290 PUTIT.2	3242 PUTTRANS
3255 PUTTRANS.2	=000B PUTTXT	3F55 PXMES1	3F5E PXMES6
3F3D PXMES7	3F49 PXMES8		
04B0 QDIAL			
=04BF RAM	=D20A RANDOM	382B RBAUD	31DE RCLOSE
4456 RDEL	0480 RDEV	43F5 RDIRC	3D59 RDISK
38A8 READ	408B RECLOP	4110 REMABOR	3E6A REMRDY
4105 REMSTOP	4445 RENAME	3901 RESETMODEM	4D5F RESTRT
3D4A RETER2	3D46 RETOK2	3E64 RETRY1	04B7 RFNAME
440F RFORMAT	3317 RGETBYTE	43E2 RIC85	43EE RIKI1
4485 RIKI3	393B RING?	34B3 RINIT	3504 RINIT.ST
4467 RLCK	4478 RNLCK	=5677 ROM	3206 ROPEN
322A RPUTBYTE	3409 RSPECIAL	3398 RSTATUS	5686 RSTM
=0012 RTCLOK	3F29 RTFOL	3B11 RTMENU	382A RTS
3825 RUNITZ	3799 RXIN_PTR	3450 RXIO32	3487 RXIO34
346C RXIO36	349C RXIO38	3426 RXIO40	379A RXOUT_PTR
40DF SAV	049B SAVEF	40CE SAVELAST	0495 SAYMOD
4083 SAVREC	3CBA SAVTOBF	3ACB SCPOS	38A7 SCRAT
422E SCREAD	0496 SCRFLG	=0231 SDLSTH	=0230 SDLSTL
=022F SDMCTL	44B8 SEC	32A9 SENDBLOCK	32BD SENDBLOCK.00
32BF SENDBLOCK.01	32C5 SENDBLOCK.1	32C9 SENDBLOCK.2	32E6 SENDBLOCK.END
3C3B SENDOUT	=00D2 SENPTR	3E24 SENREC	3E77 SEOT
=D20D SERIN	=D20D SEROUT	5680 SETD	44FB SETINT
=E45C SETVBV	=02BE SHFLK	=E459 SIOV	=D00C SIZEM
=D008 SIZEP0	=D20F SKCTL	=D20A SKREST	=D20F SKSTAT
=0001 SOH	3425 SPECIAL.1	=022B SRTIMR	=0232 SSKCTL
4C86 START	379C STAT	38EE STATUS	33A8 STATUS.1
33C8 STATUS.2	33D4 STATUS.3	33DB STATUS.4	33FC STATUS.END
33ED STATUSCON	30B7 STERA	4CD8 STERM	=0278 STICK0
=D209 STIMER	3B5A STKEY	30F4 STLINE	30C4 STNAME
3EF5 STOK	3EFA STOK2	=0284 STRIG0	51F5 SUBTR
04A9 SVBK			
4EBC T0	4452 TDEL	3A35 TEMPBUFF	5093 TERM1
54E6 TERM2	54FC TERM3	41A0 TESOPT	3B6D TESTER
443A TEXIT	440B TFORM	4277 TIGGX	4299 TIGGZ
4463 TLCK	4340 TOMANY	0488 TOPBUF	382F TRAN
0490 TRANF	4441 TRENA	=D010 TRIG0	379E TRNPAR
4137 TST2	4166 TSTBUF	4474 TUNLK	3797 TXIN_PTR
3798 TXOUT_PTR	3798 TX_DONE		
=0007 VBLKD	=0006 VBLKI	=D40B VCOUNT	=D01C VDELAY
3687 VEC_IO	367D VEC_SPECIAL	366E VEC_TABLE	=0216 VIMIRG
5090 VOOM	=D405 VSCROL	=020A VSERIN	=0222 VVBLKI
38E3 WAITASEC	510C WAITKEY	3B06 WCARR	3E7C WHAP
44AD WHOOPZ	3024 WINDA1	304C WINDA2	3194 WINMES
3076 WINOP	38C1 WRITE	=D40A WSYNC	
4007 XACKCO	3FA8 XBADSH	3AC1 XBLKNUM	3ABF XBYTE

4001 XIG4	3FE4 XIGOP3	412F XIGRC1	412A XIGREC
3458 XI032.1	345F XI032.2	3832 XI034	3494 XI034.1
3496 XI034.9	3849 XI036	3867 XI038	3884 XI040
342E XI040.1	3436 XI040.2	343C XI040.4	34AB XIORETOK
=E462 XITVBV	39B3 XMBUFF	4C6F XMES3	41C8 XMEXIT
3F67 XMLOAD	4019 XML0P	3DF4 XMODEM	3ABC XMODF
3E0B XMSAVE	400F XNUMOK	4040 XOK1	4024 XOK2
3F72 XRETRY	3EAA XSENLP	3E23 XSNLP	3AB7 XTEMP
3AB9 XTEMP1	3ABA XTEMP2	567A XTMP	
3AE2 YANSF	5A82 YAZ	5825 YESSIR	44B6 YSTAX
567C YTEMP			
4FAB Z38COL	4FD3 Z64COL	4FED Z80COL	4E0D ZEPP0
4487 ZRICA			